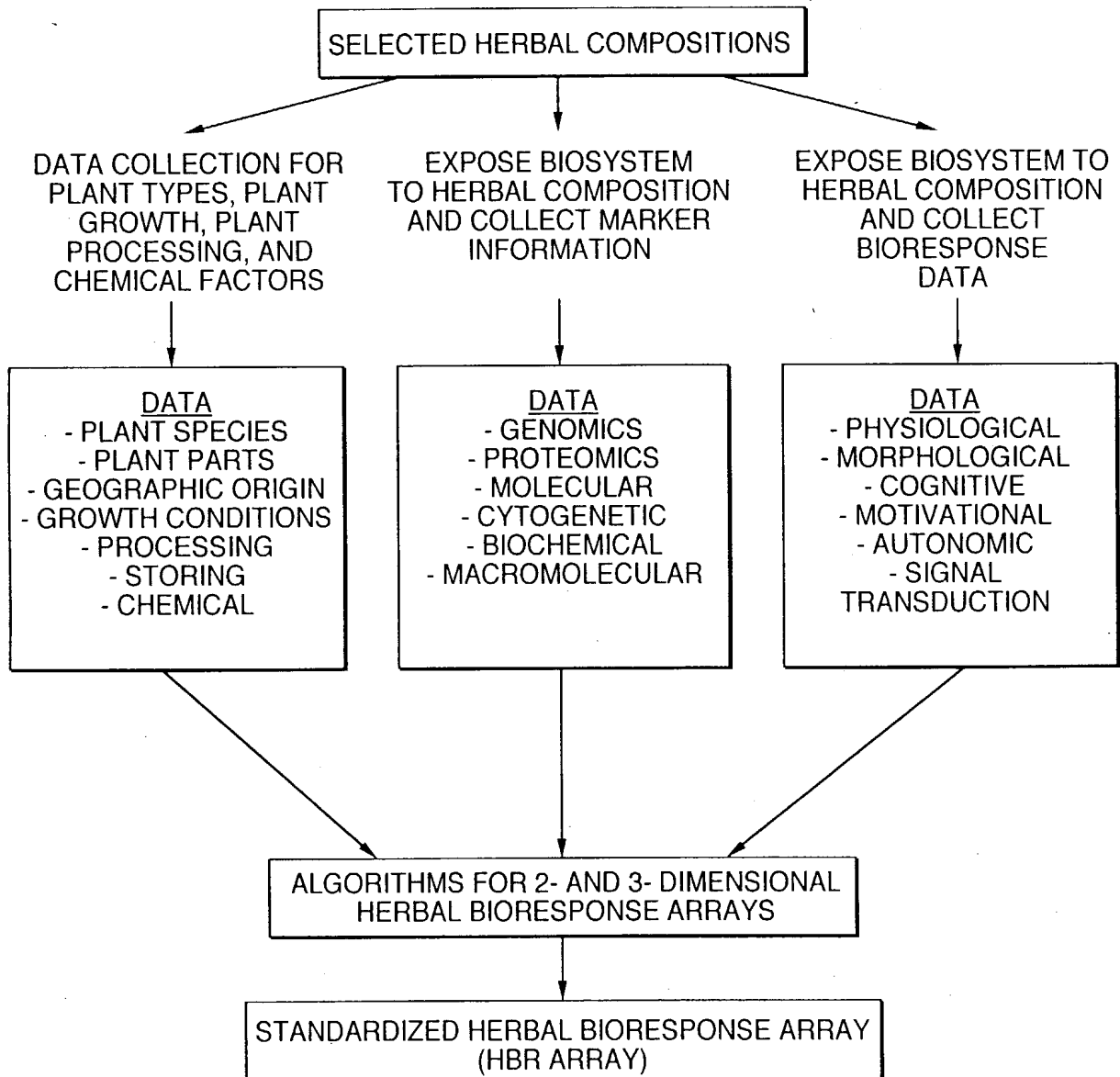


FIG. 1



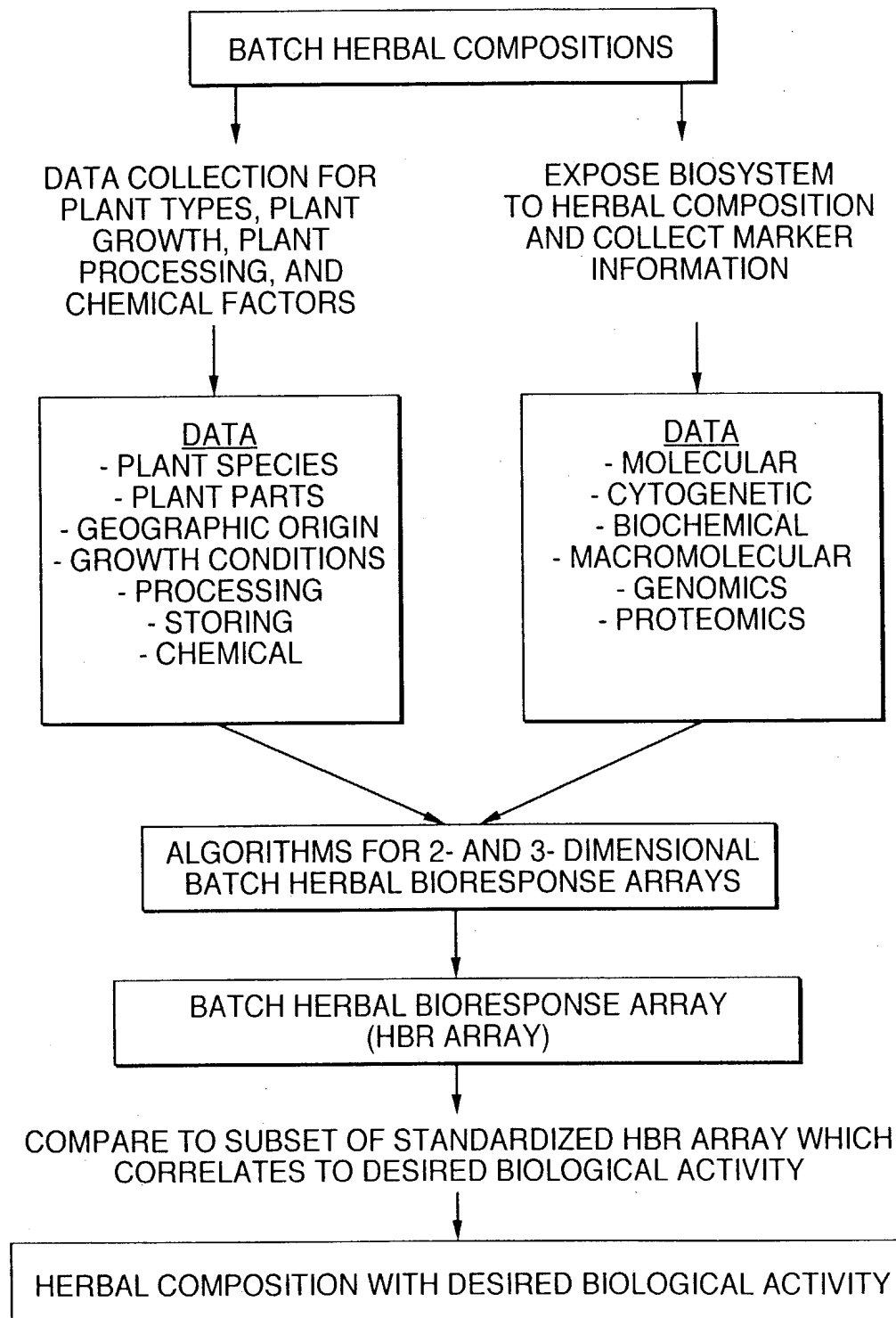
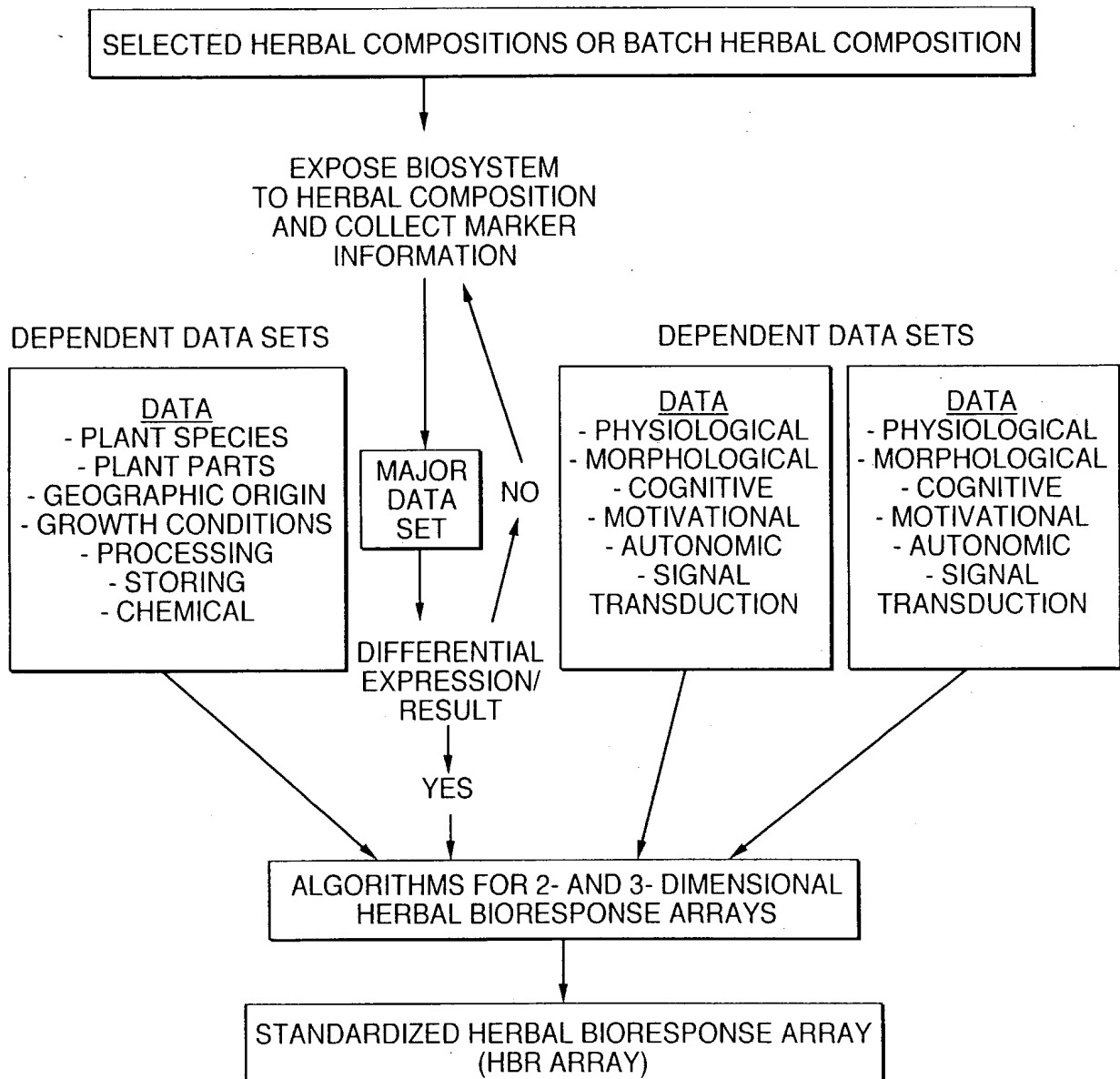
2/38  
**FIG. 2**

FIG. 3



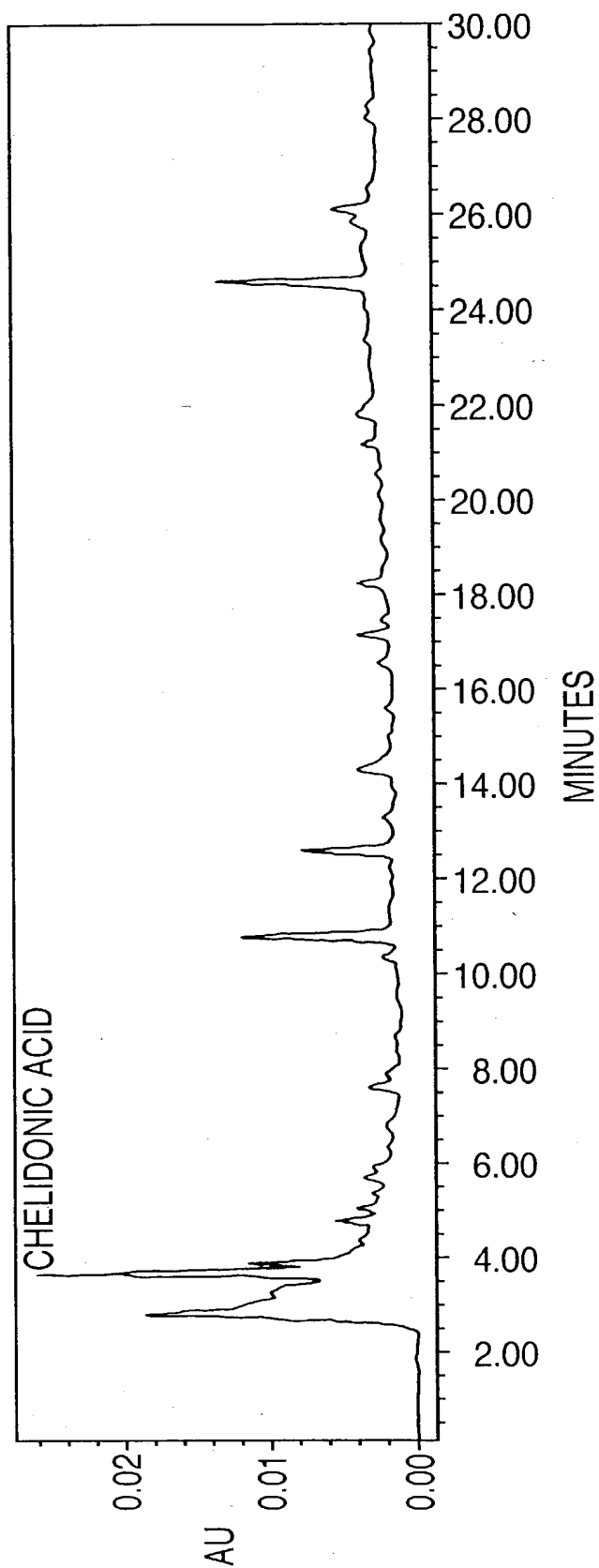
4/38

FIG. 4



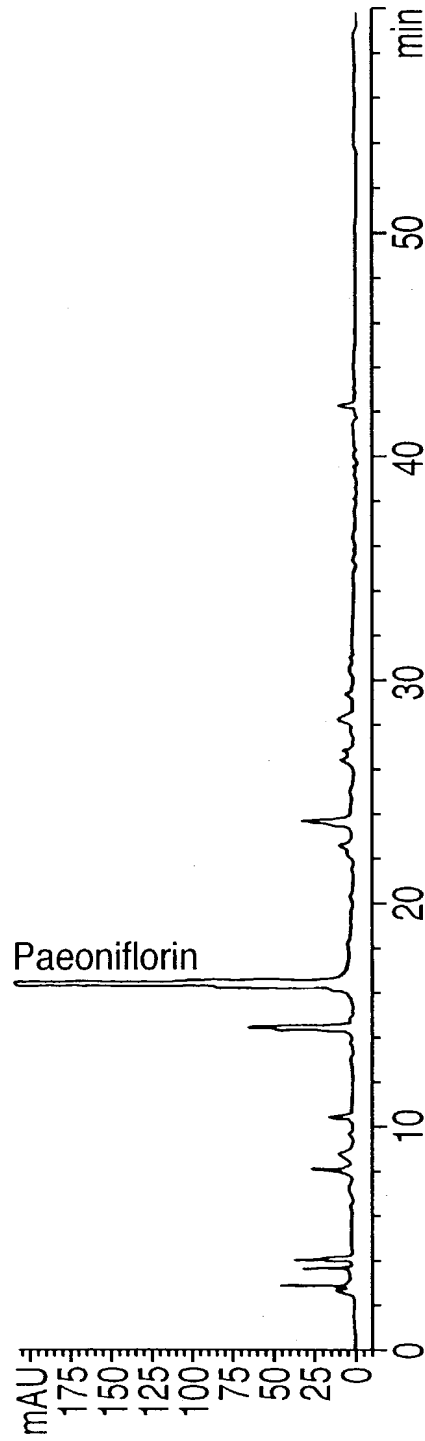
5/38

FIG. 5



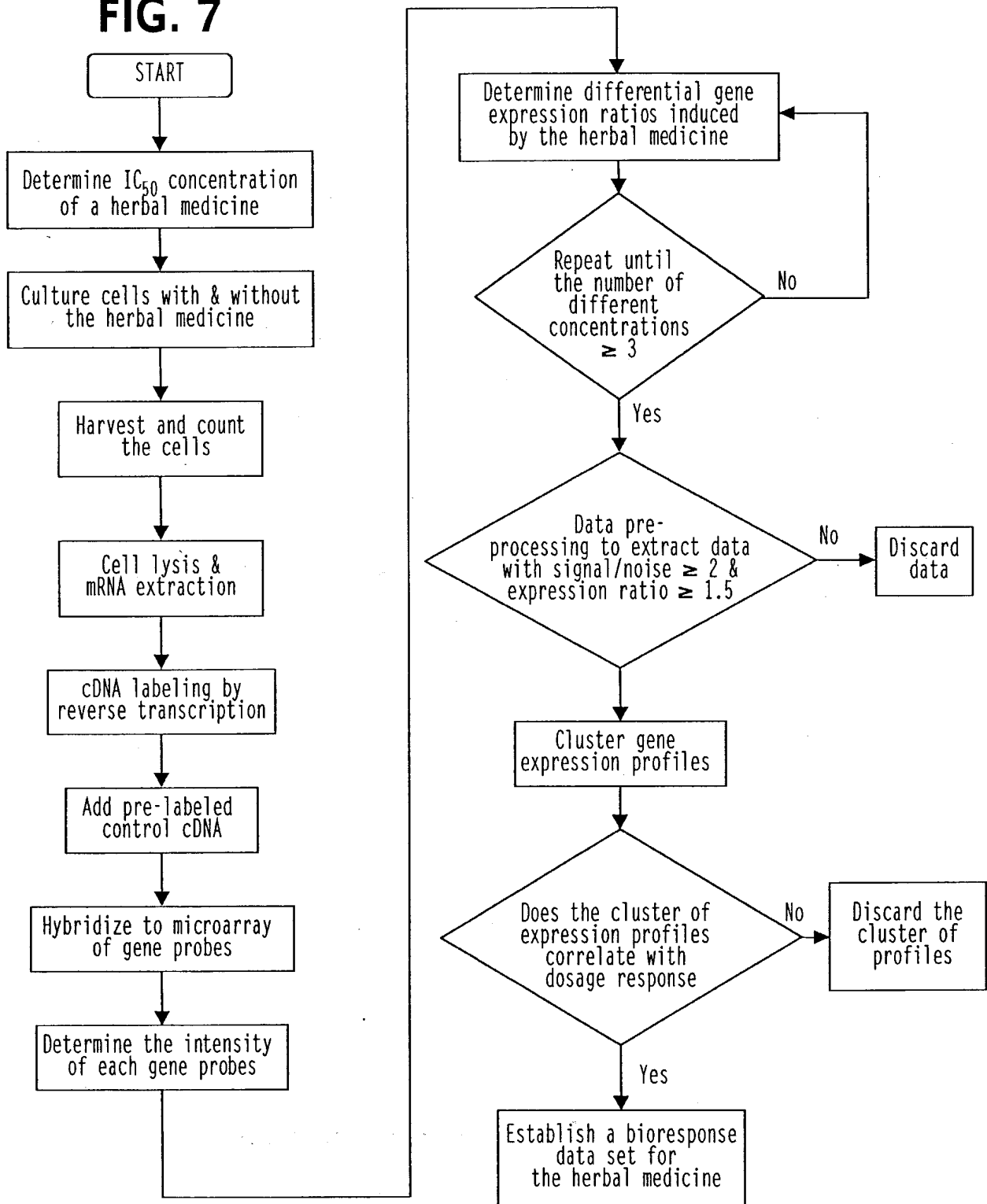
6/38

FIG. 6

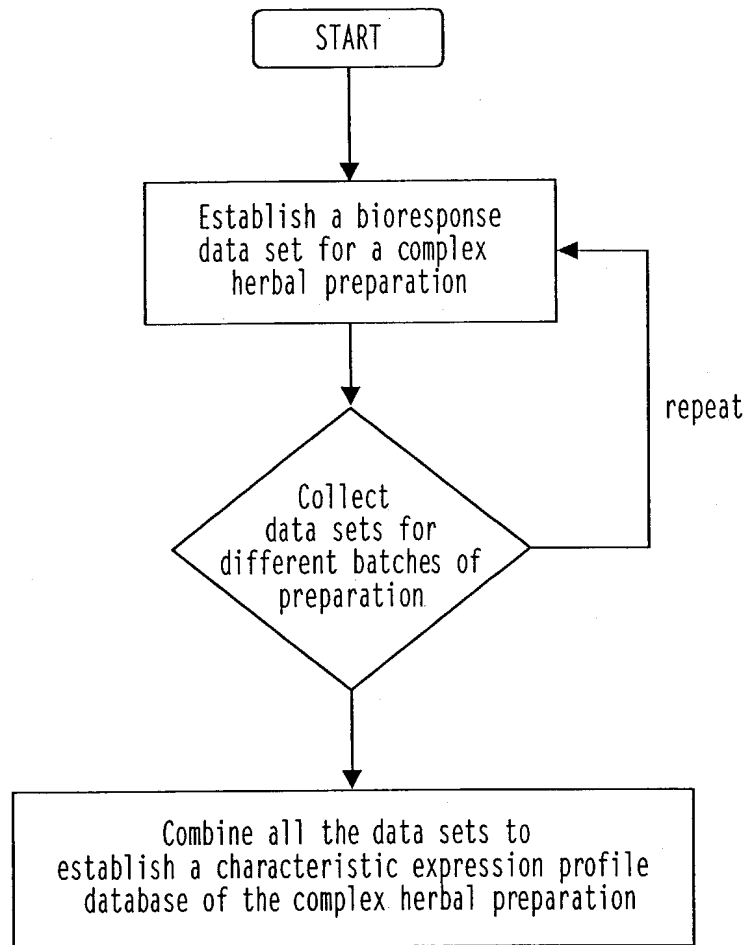


10/030453

7/38

**FIG. 7**

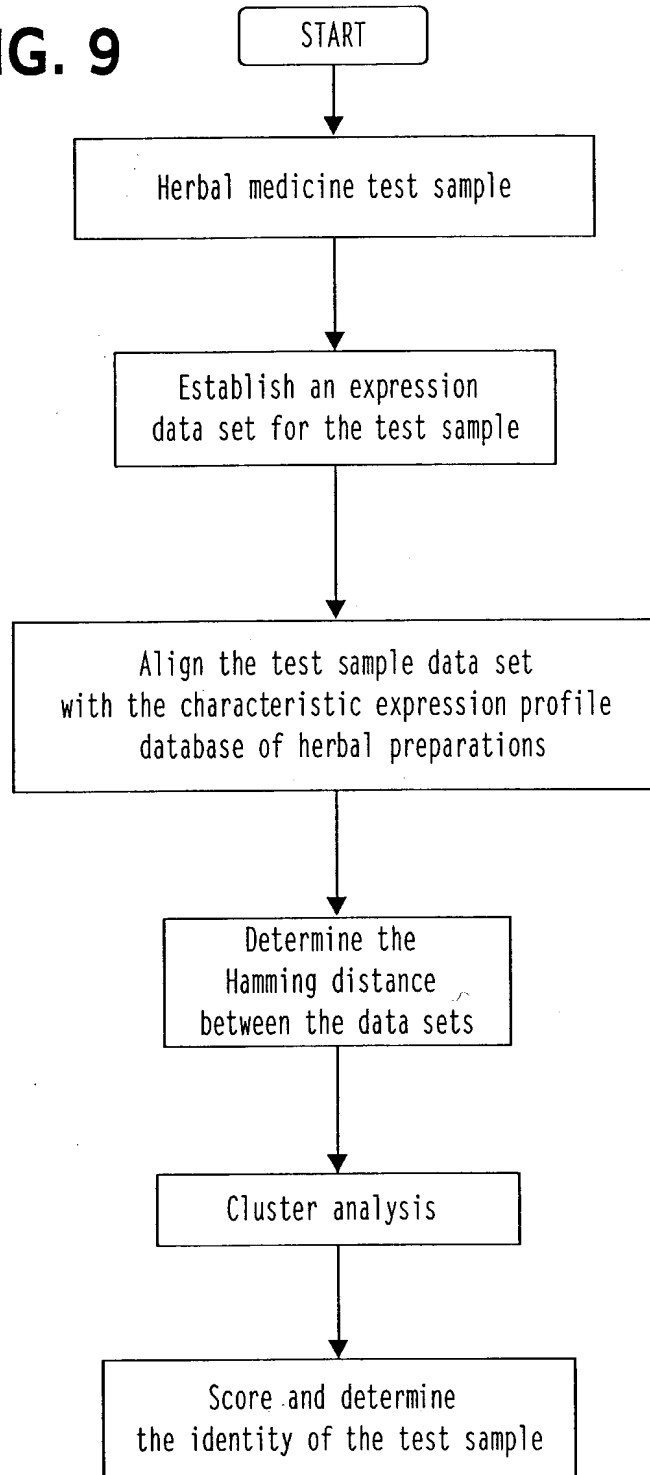
8/38

**FIG. 8**



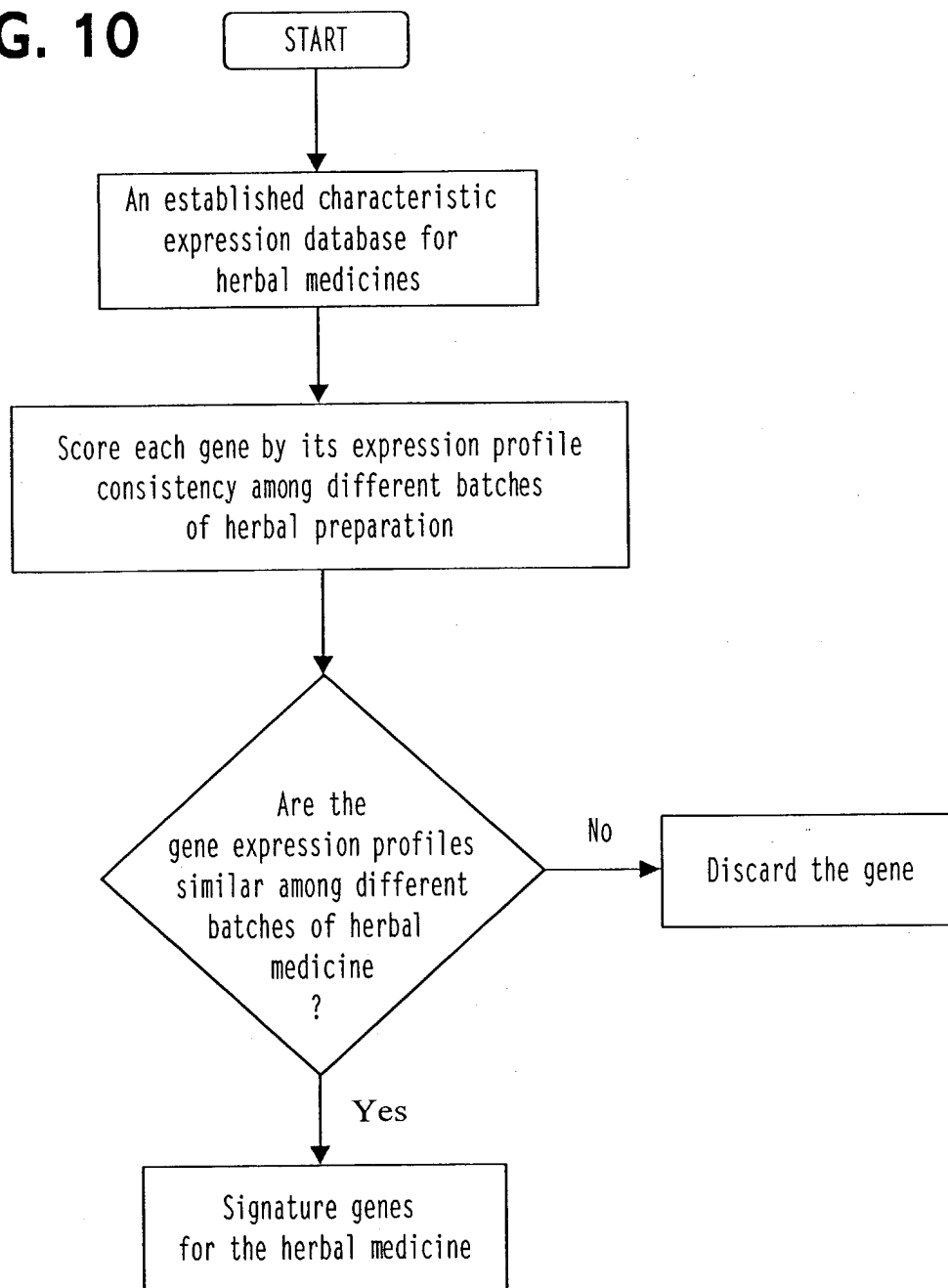
9/38

**FIG. 9**



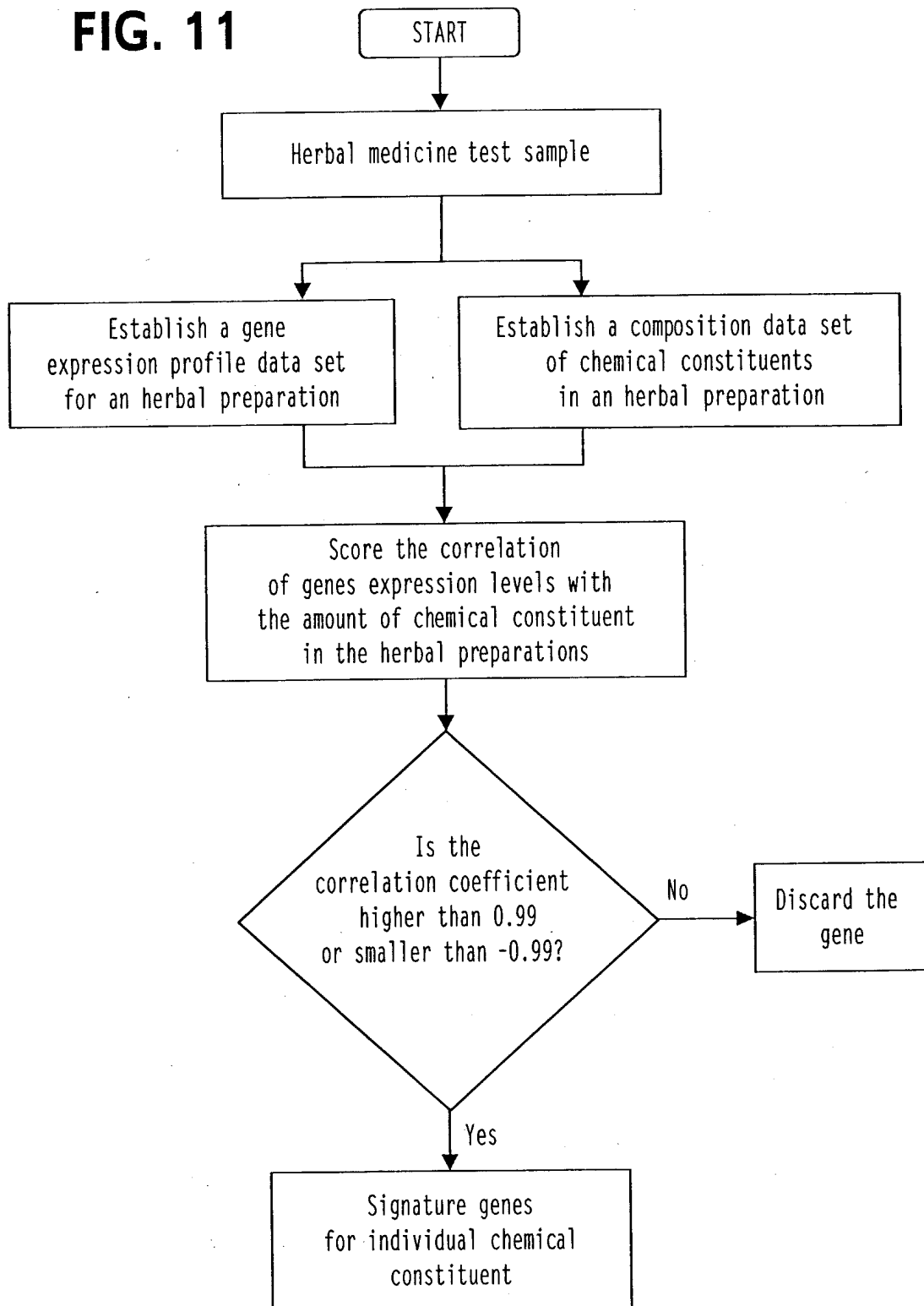
10/38

**FIG. 10**



11/38

FIG. 11



12/38

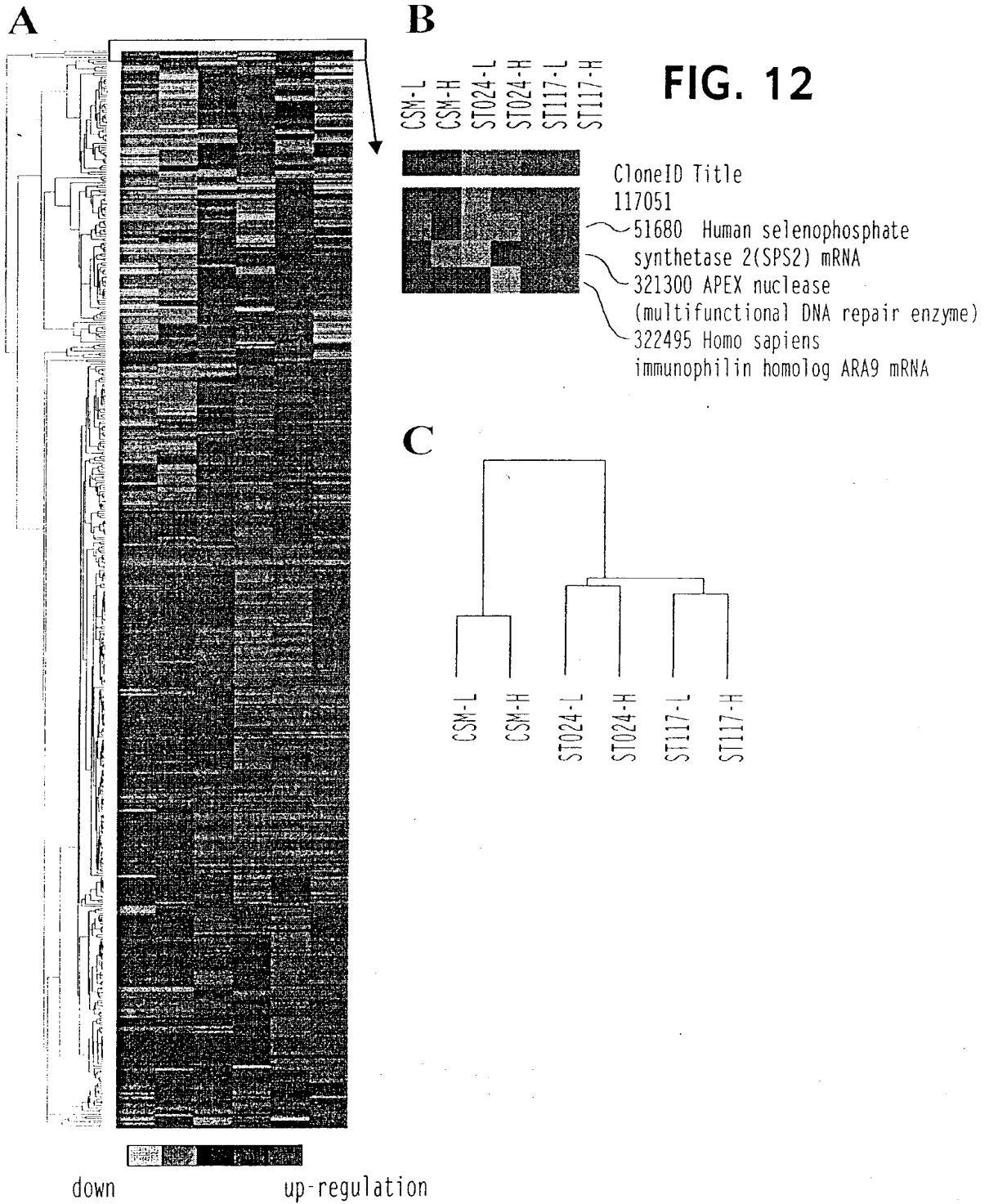
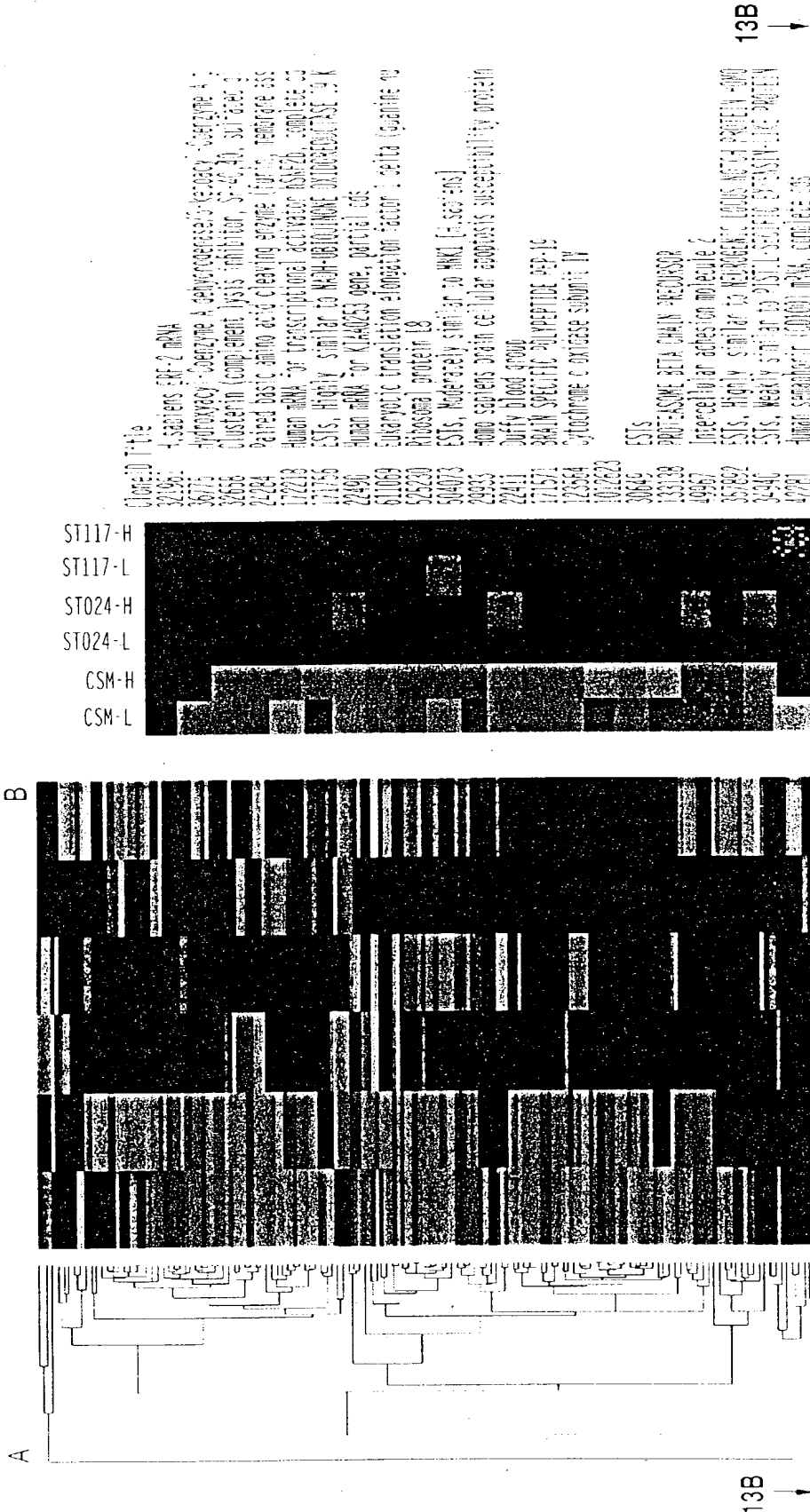
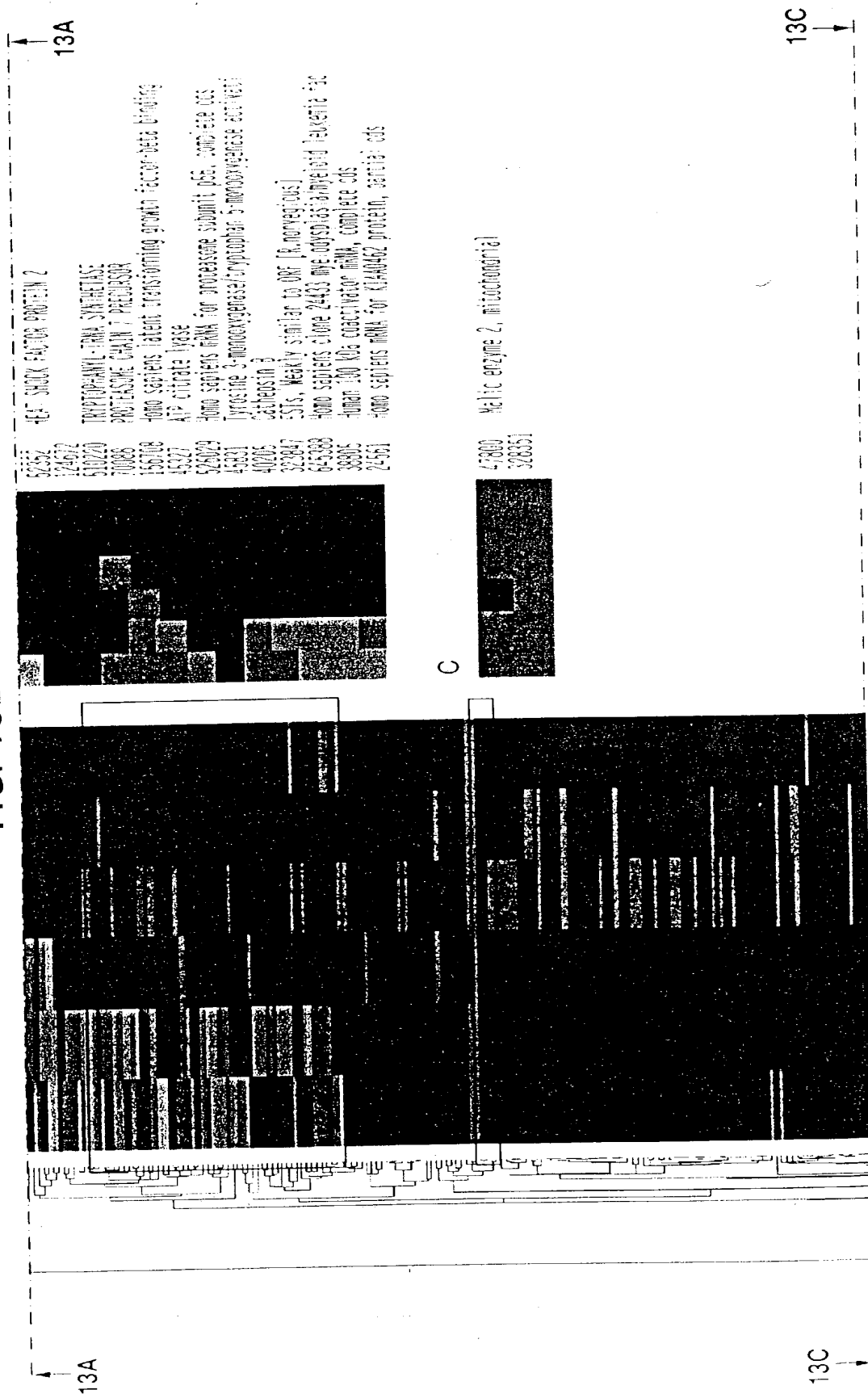


FIG. 12

FIG. 13A  
B

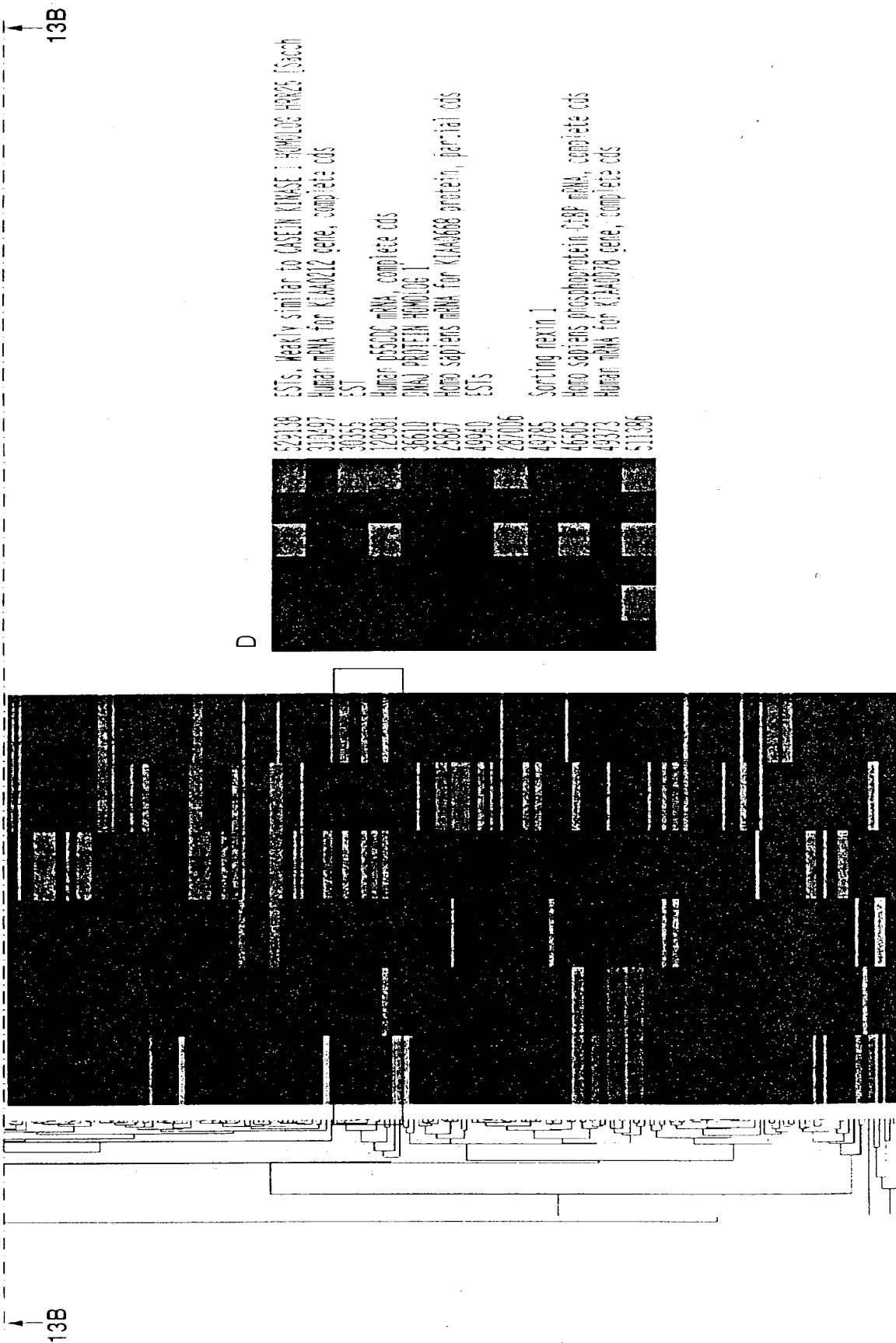


**FIG. 13B**



15/38

FIG. 13C



16/38

FIG. 14

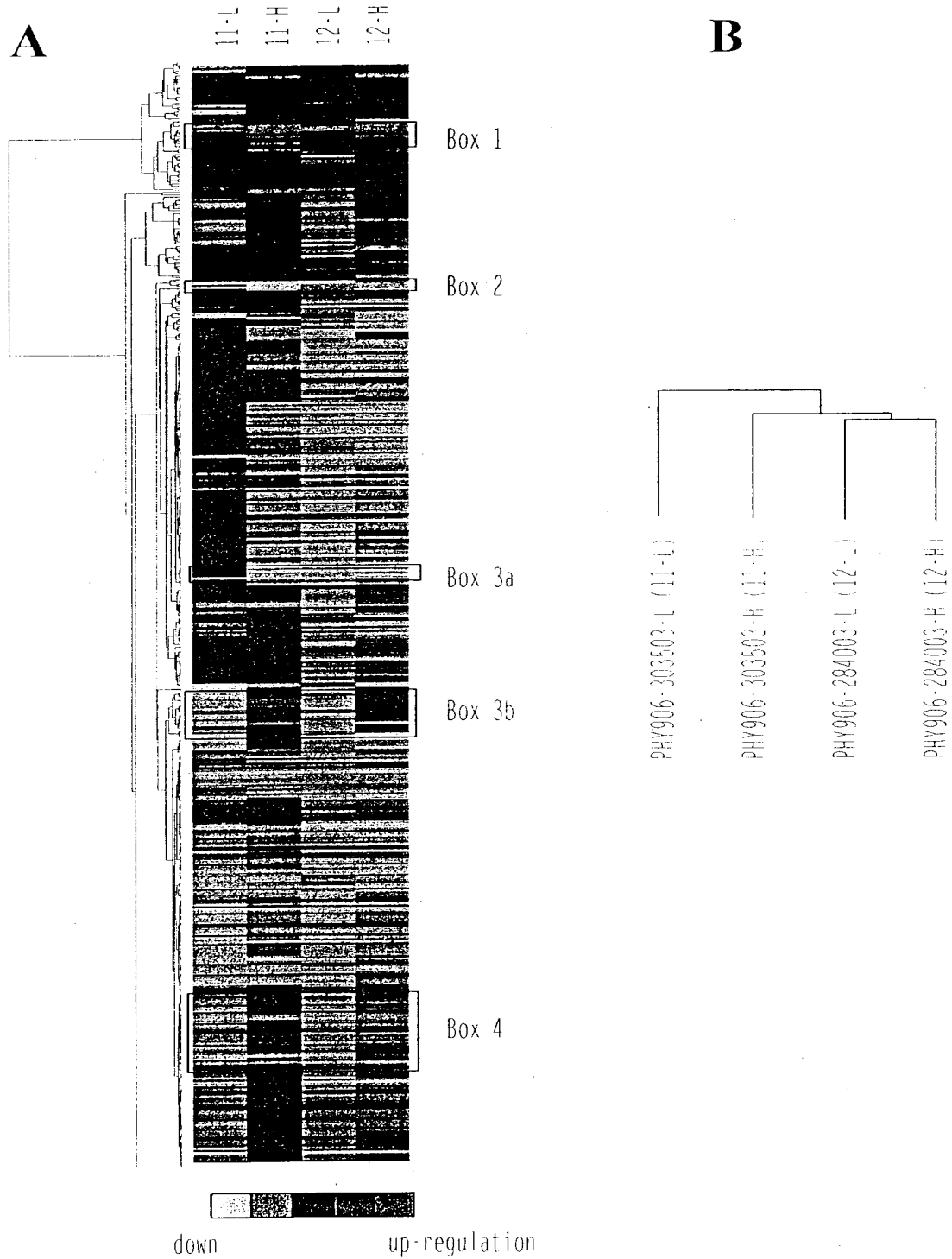




FIG. 15A

A B

11-L-II 11-L-I 11-H-I 11-H-II 11-H-3 12-L-1 12-L-2 12-L-3 12-H-1 12-H-2 12-H-3 control-1 control-2 control-3

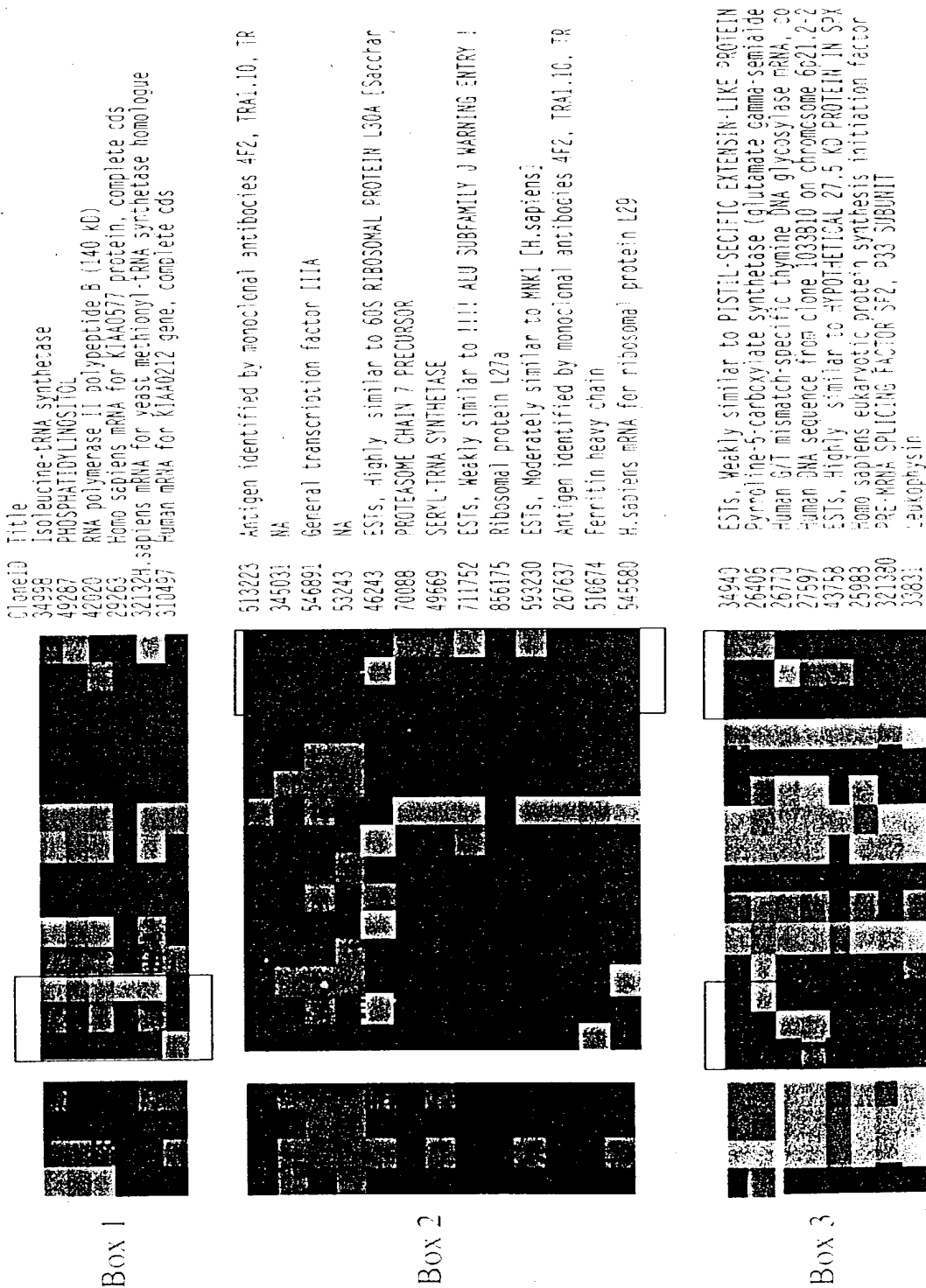
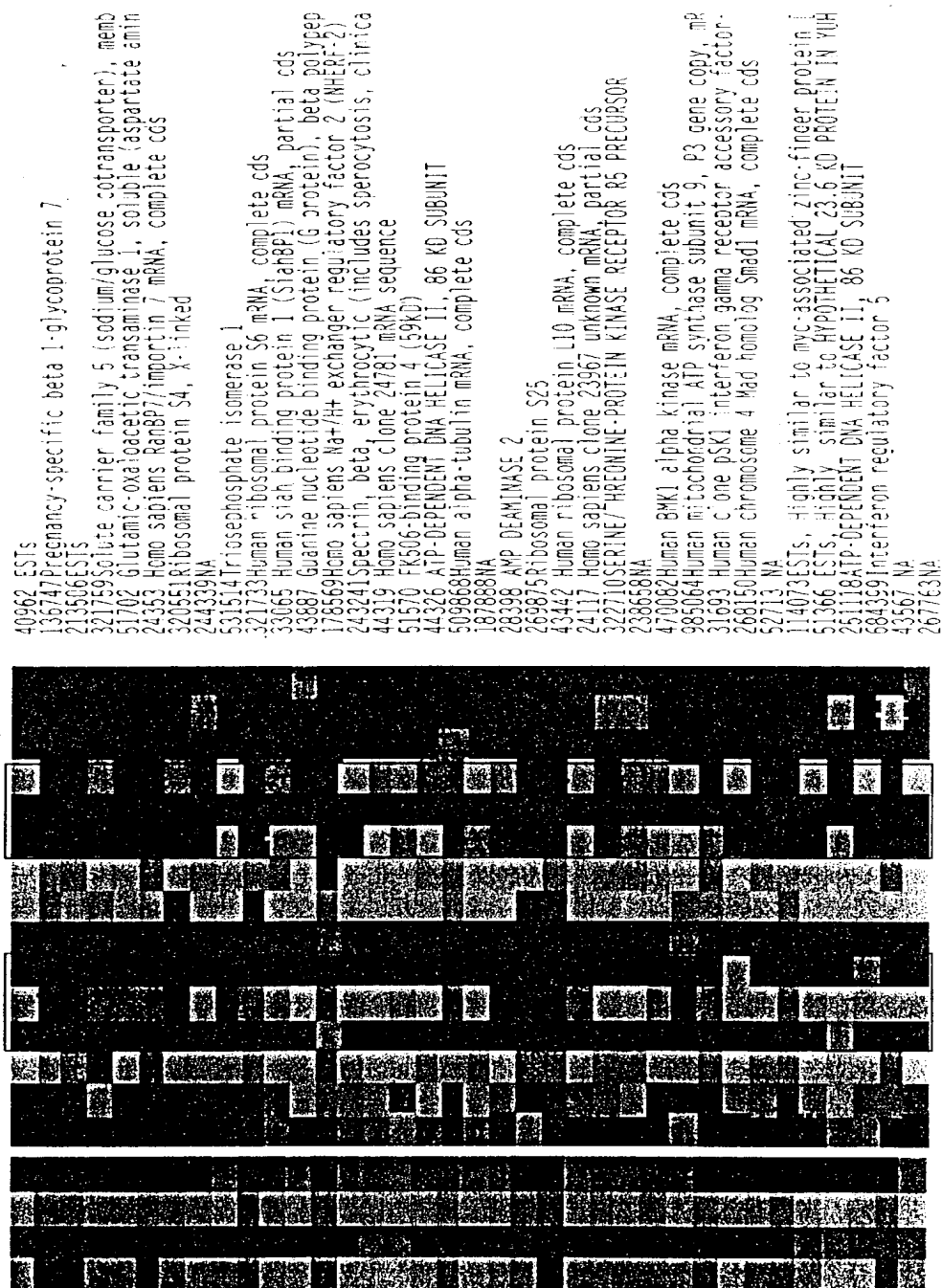


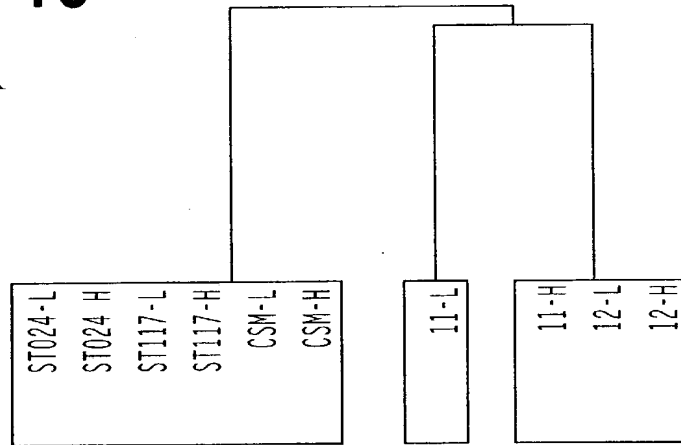
FIG. 15B



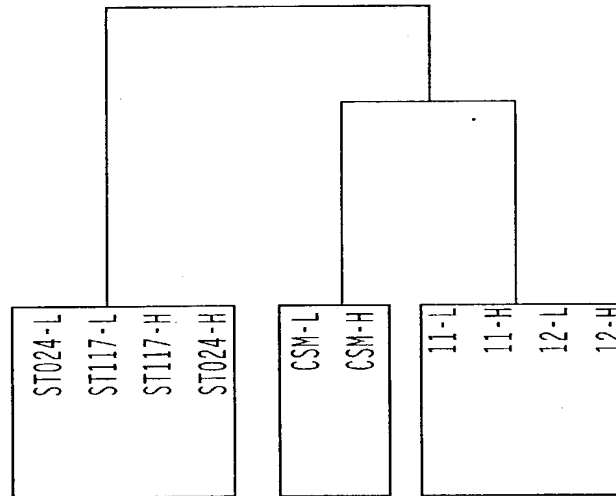
19/38

**FIG. 16**

**A**



**B**



**C**

**3-Cluster SOM**

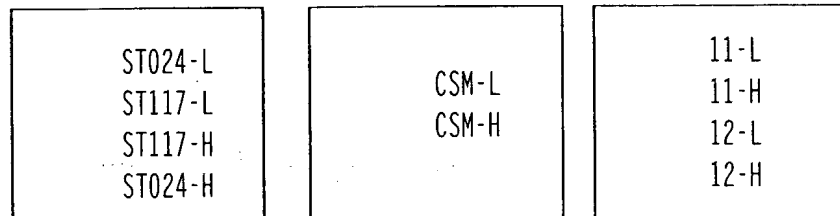
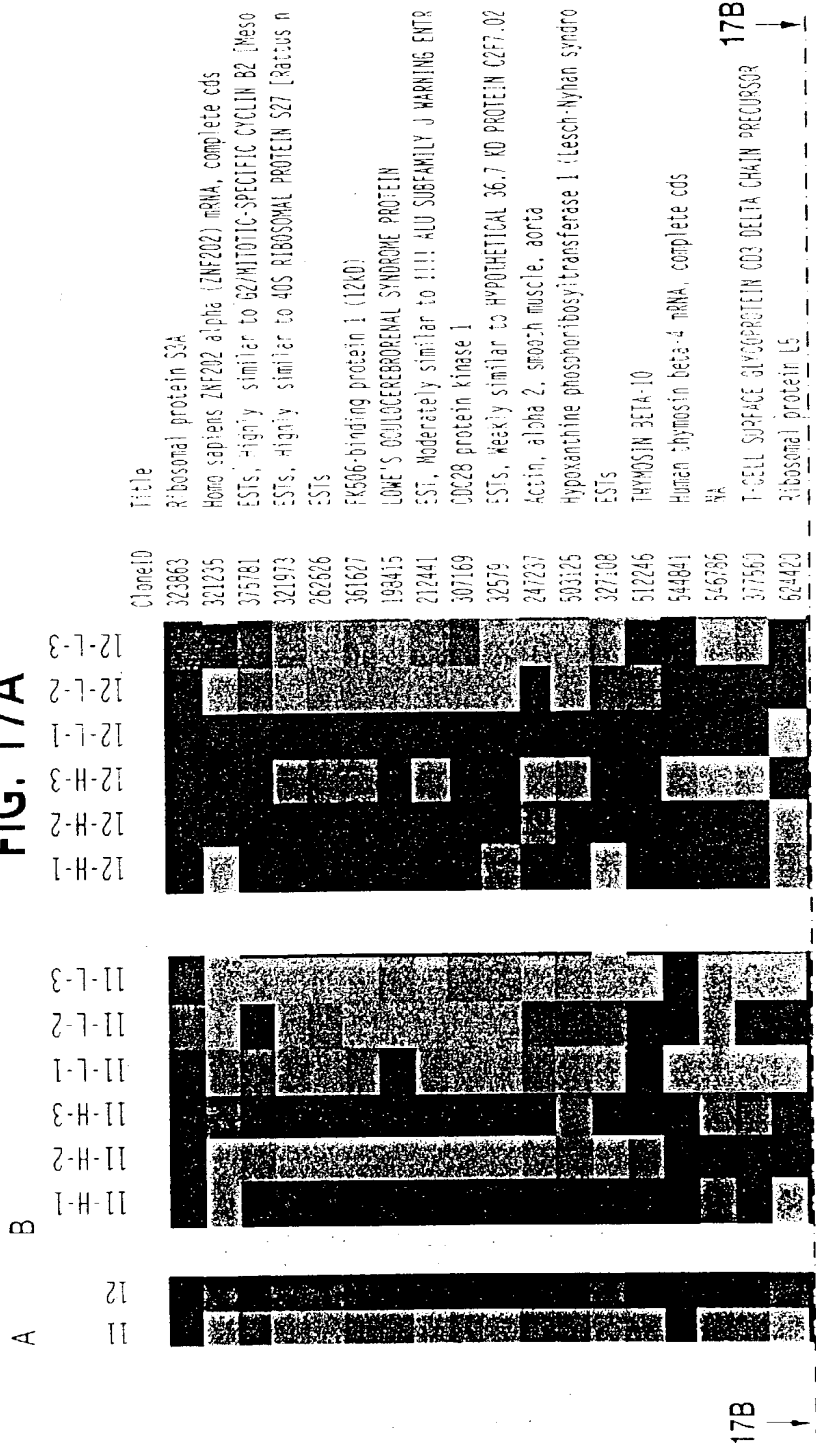


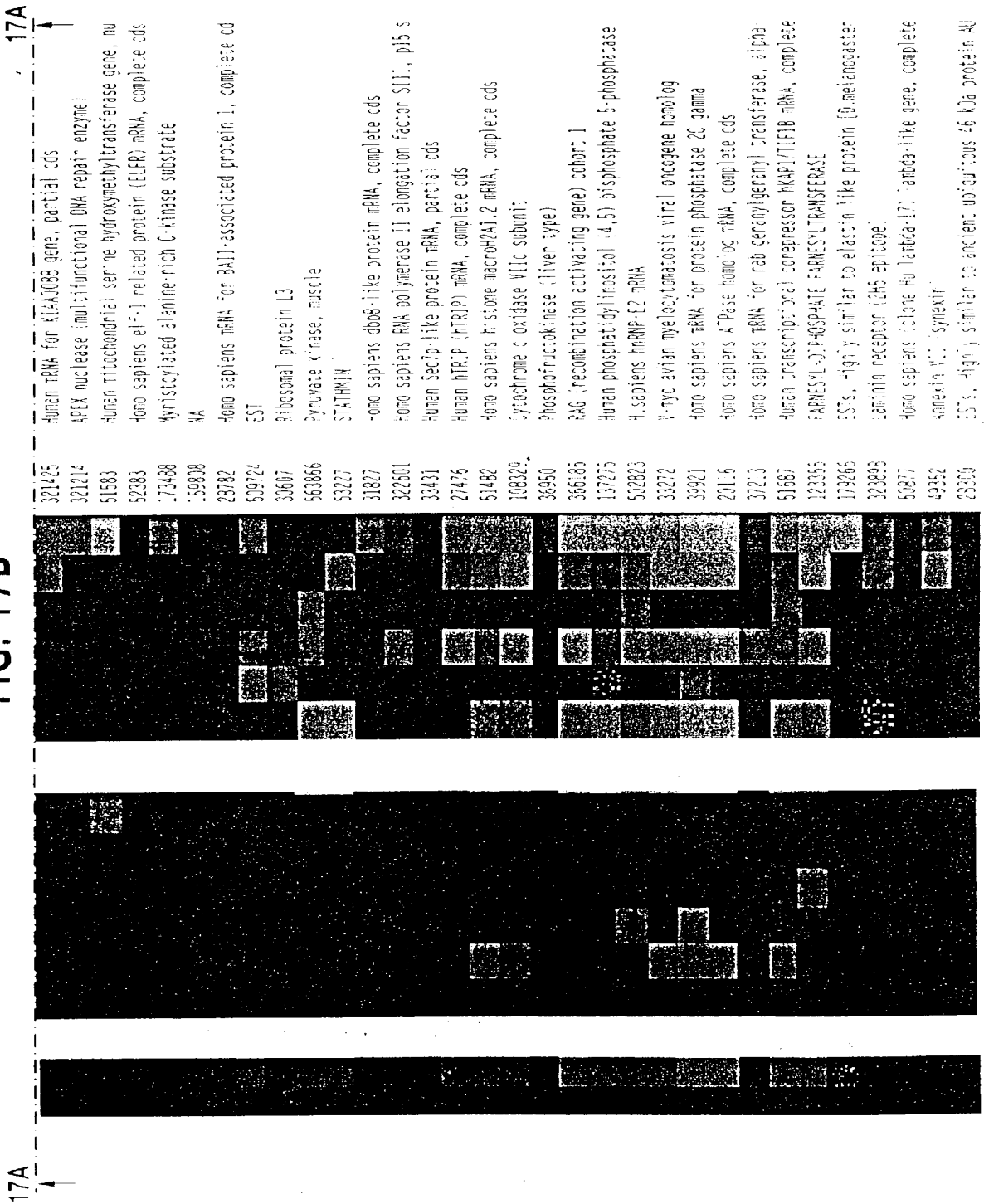
FIG. 17A



17B

17B

FIG. 17B



22/38

FIG. 18A

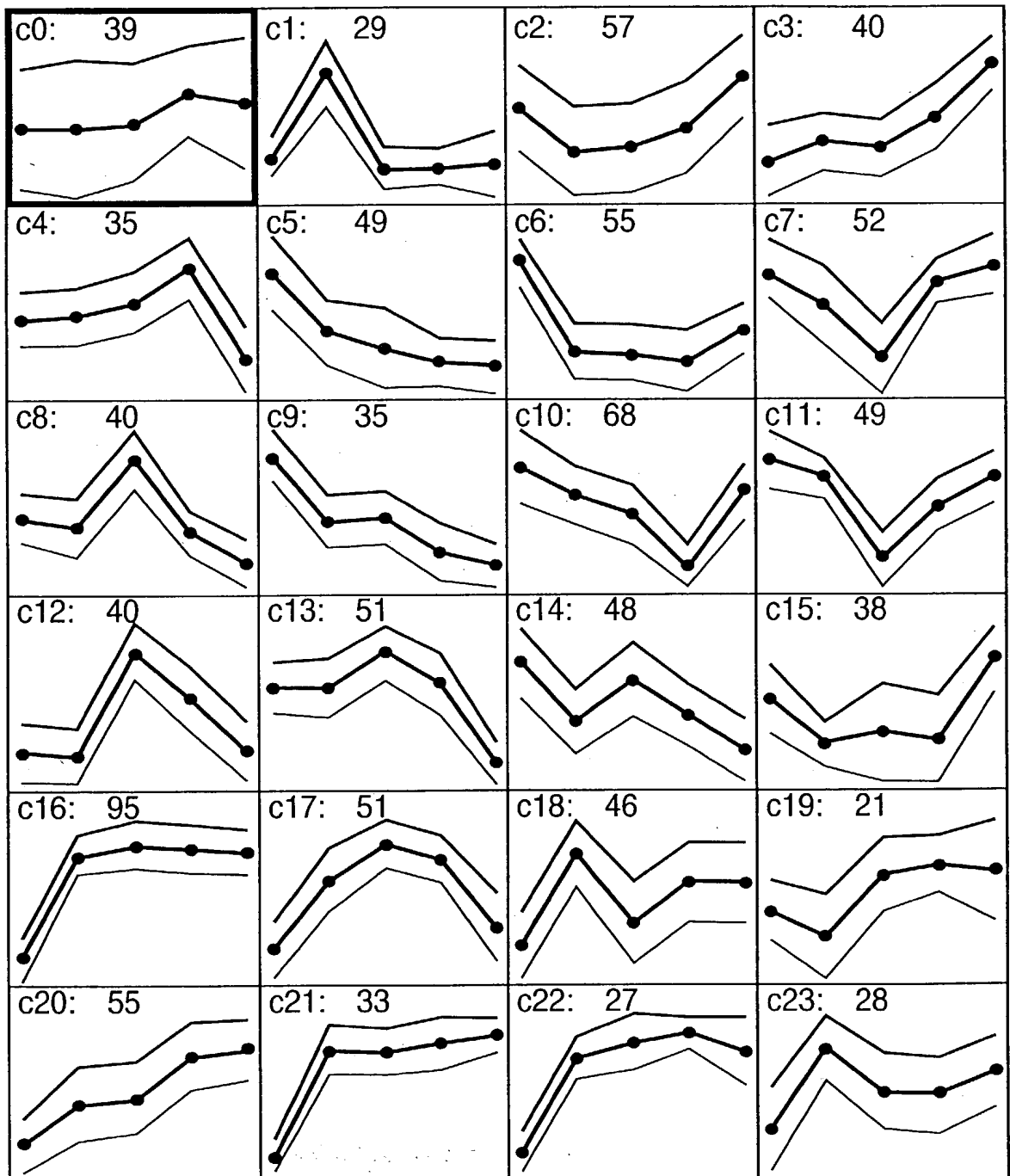
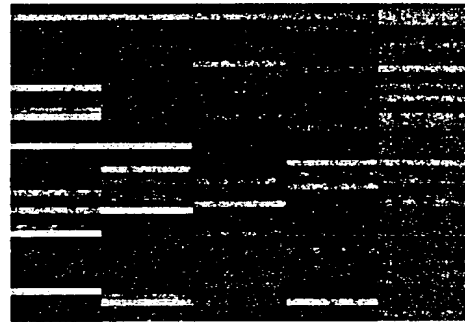
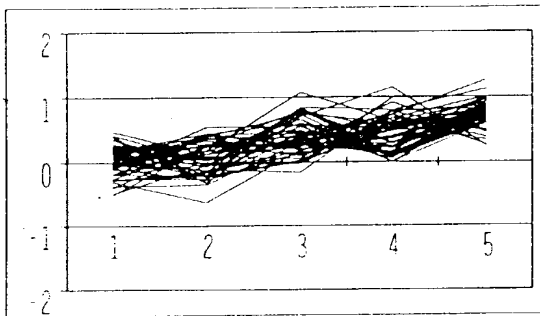
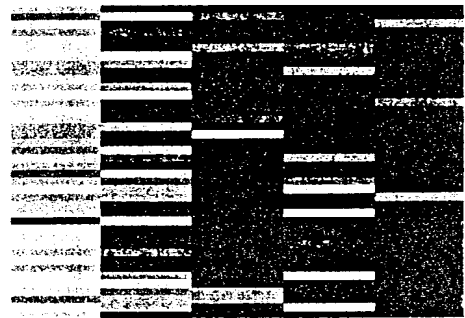
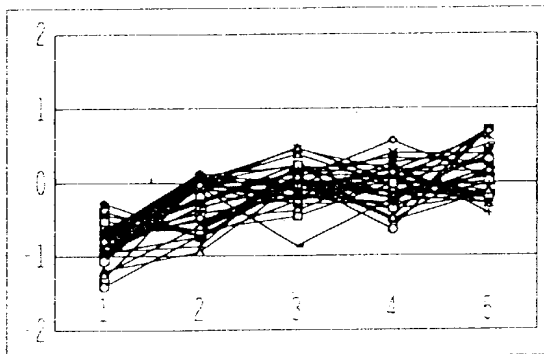


FIG. 18B

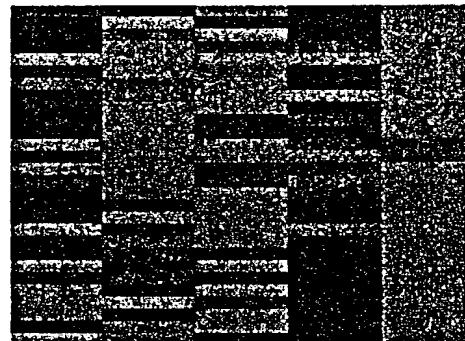
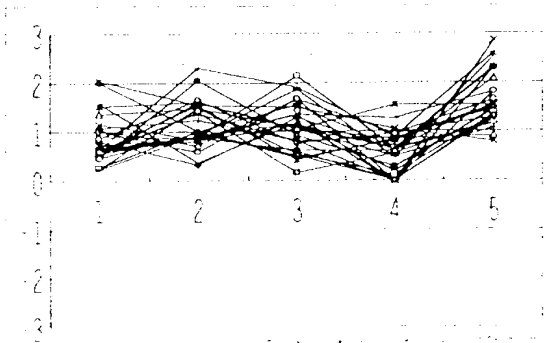
Group A1, c20



Group A1, c3



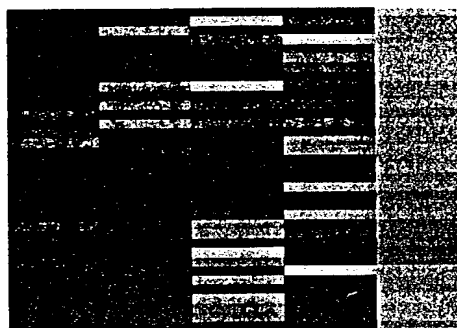
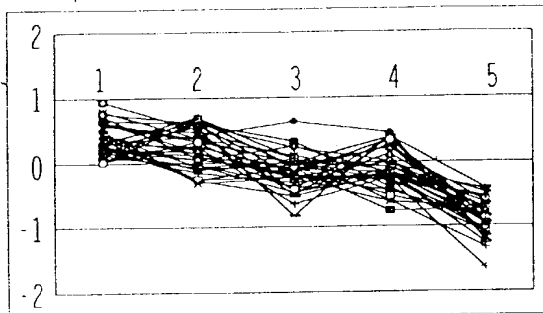
Group A2, c23



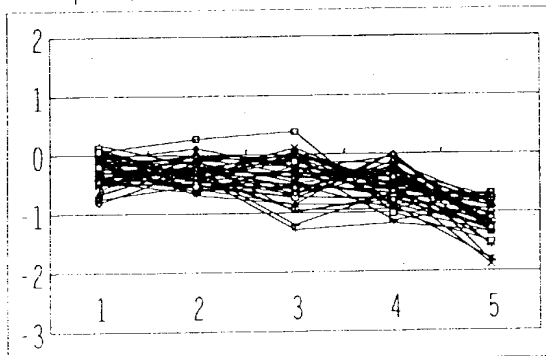
Low High concentration →

FIG. 18C

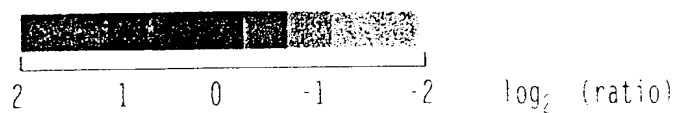
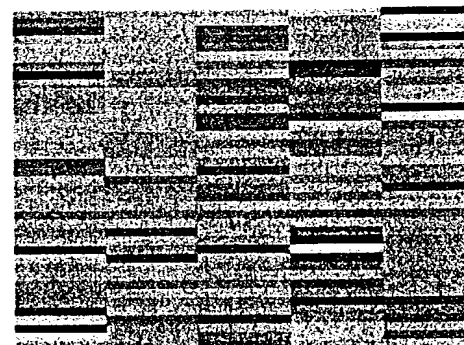
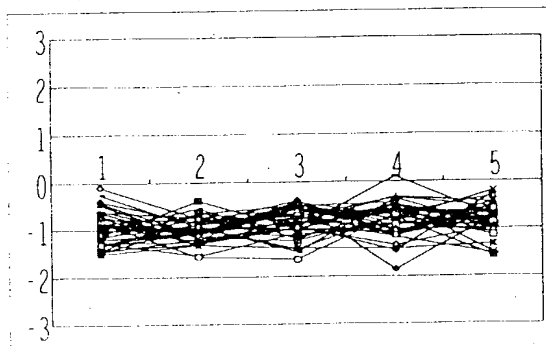
Group B1, c9



Group B1, c5



Group B2, c0





**FIG. 19**

GROUP	#1	#2	#3
GENE 1	1	1	0
GENE 2	1	1	0
GENE 3	1	1	1
GENE 4	1	1	1
GENE 5	0	0	1
GENE 6	1	0	0
GENE 7	0	1	1
GENE 8	1	0	1
GENE 9	0	0	1
GENE 10	0	0	1
GENE 11	-1	-1	-1
GENE 12	0	0	-1
GENE 13	0	0	-1
GENE 14	-1	-1	-1
GENE 15	-1	0	0
GENE 16	0	-1	0

1: GROUP A GENE  
-1: GROUP B GENE  
0: NON GROUP A  
OR GROUP B

**FIG. 20**

DISTANCE	#16	#17	#18	#19	#20
#16	0	433	373	601	315
#17	433	0	274	631	367
#18	373	274	0	584	305
#19	601	631	584	0	527
#20	315	367	305	527	0

A. **FIG. 21**

	BG	B	Gly	Pf	BG+B	BG/B
#16	30.35	4.98	4.69	9.16	35.33	6.09
#17	30.69	5.39	4.39	6.55	36.08	5.69
#18	28.95	4.6	7.73	7.02	33.55	6.29
#19	38.66	3.83	11.66	9.01	42.49	10.09
#20	41.95	3.01	7.33	7.75	44.96	13.94

B.

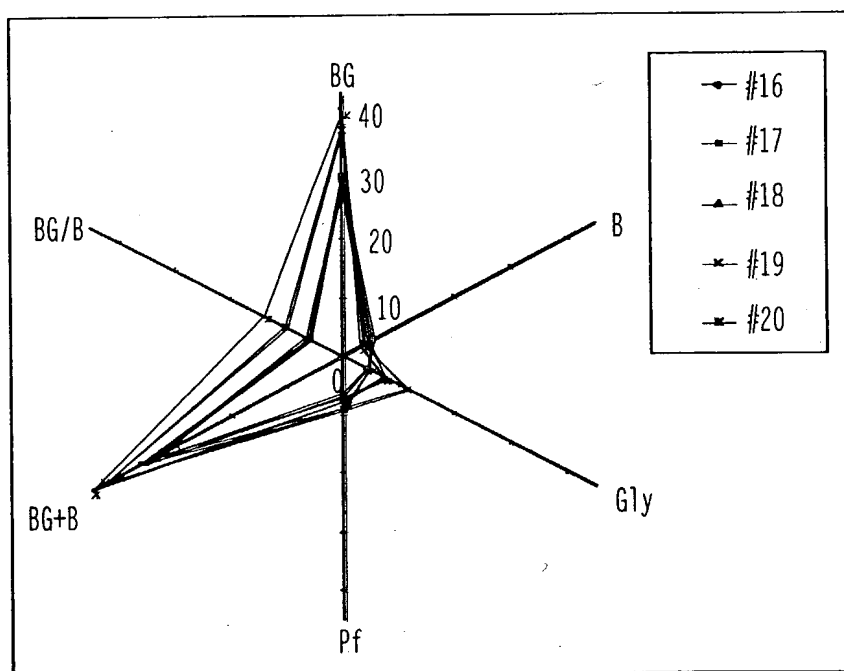


FIG. 22A

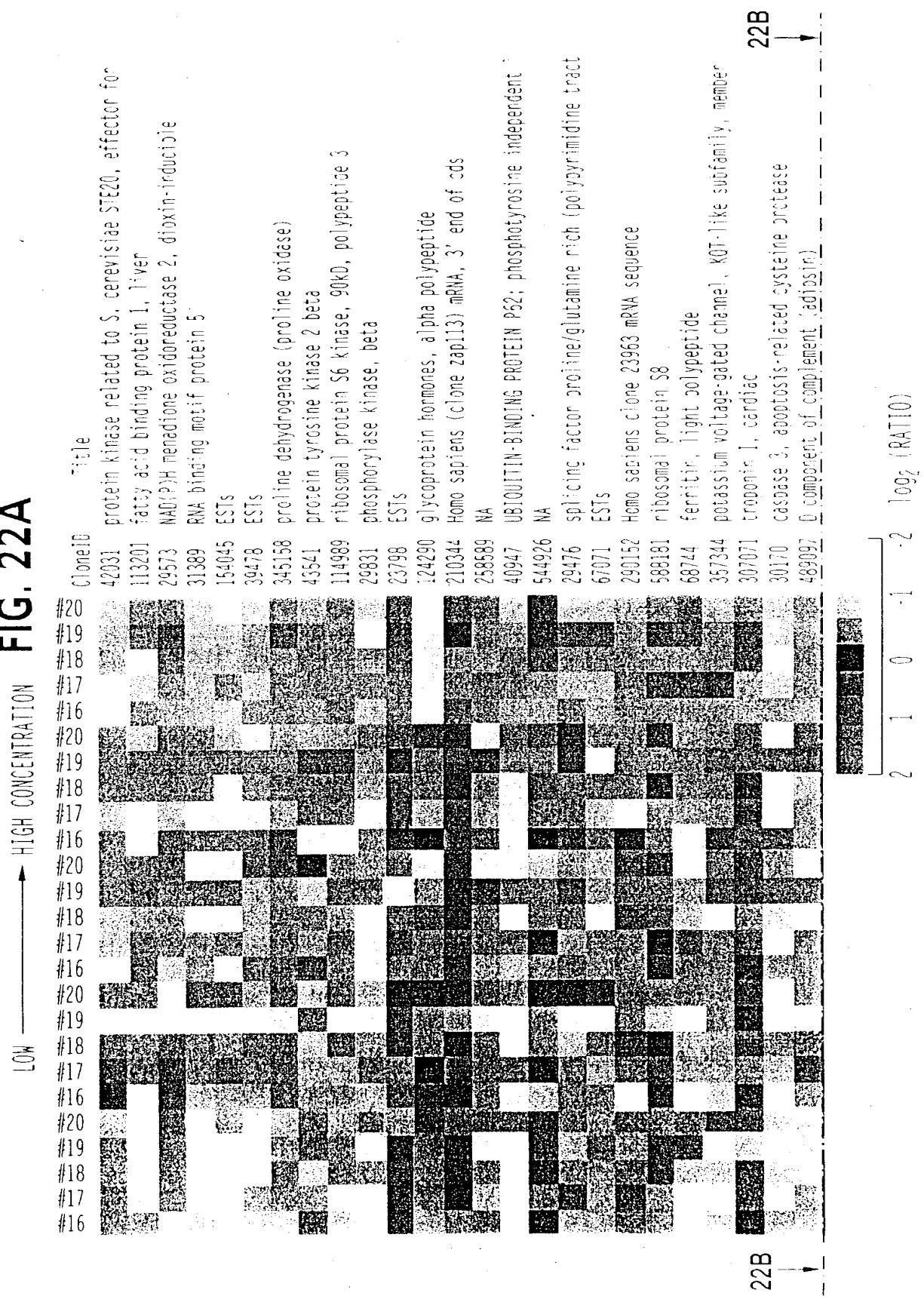
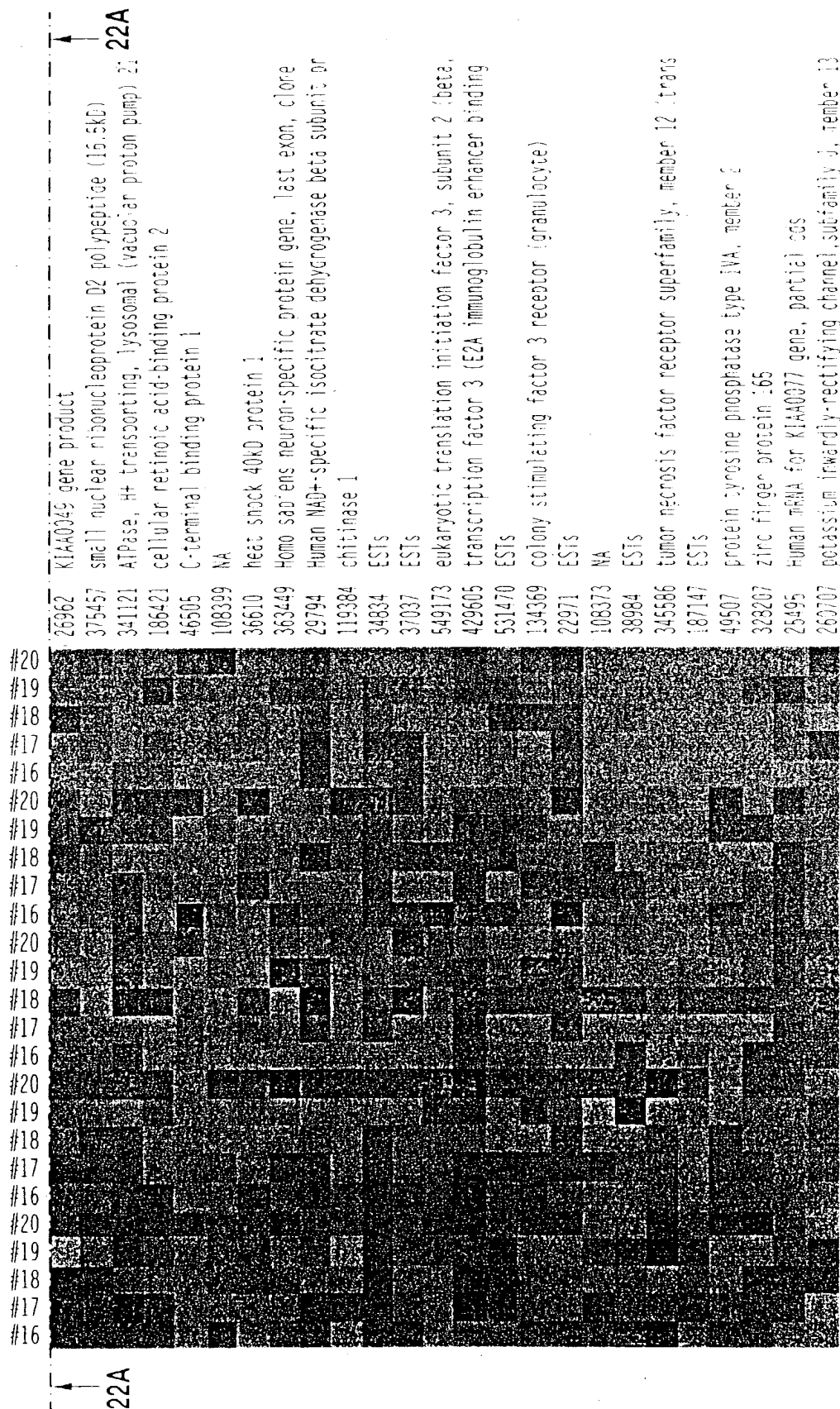


FIG. 22B

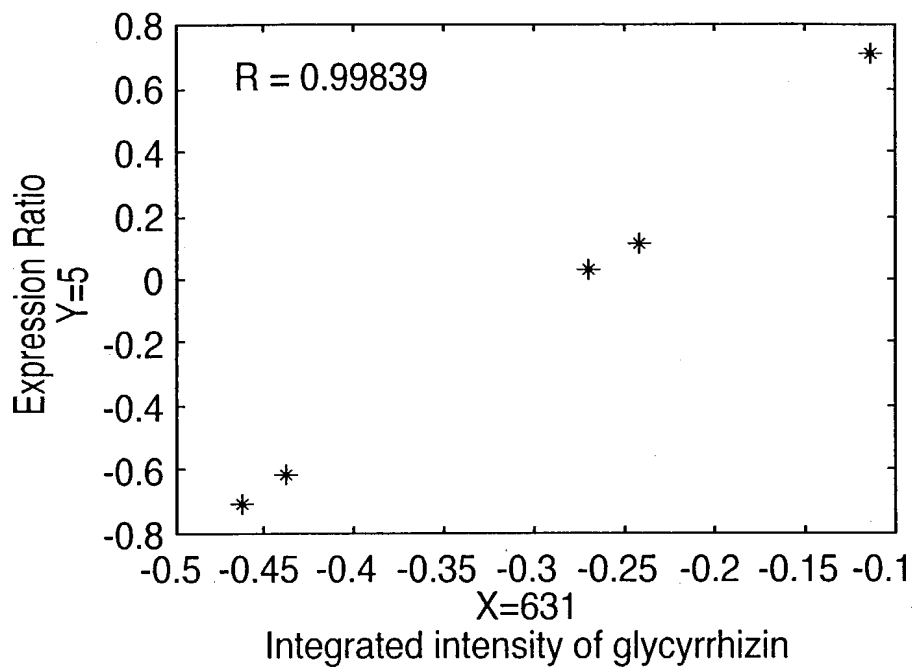
LOW → HIGH CONCENTRATION



30/38

# FIG. 23

A. CLONEID: 67185



B. CLONEID: 344720

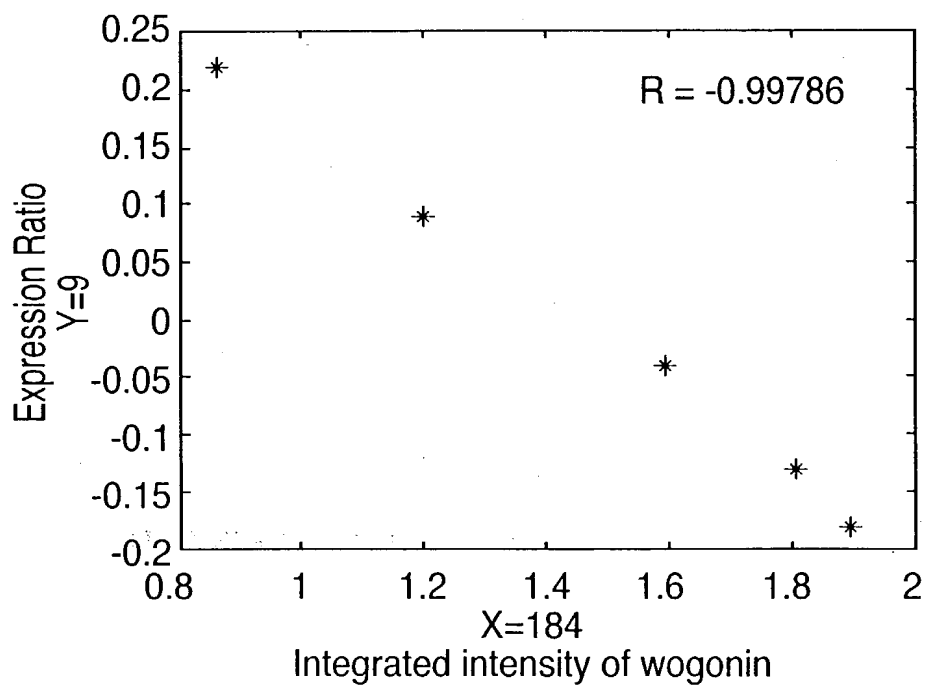
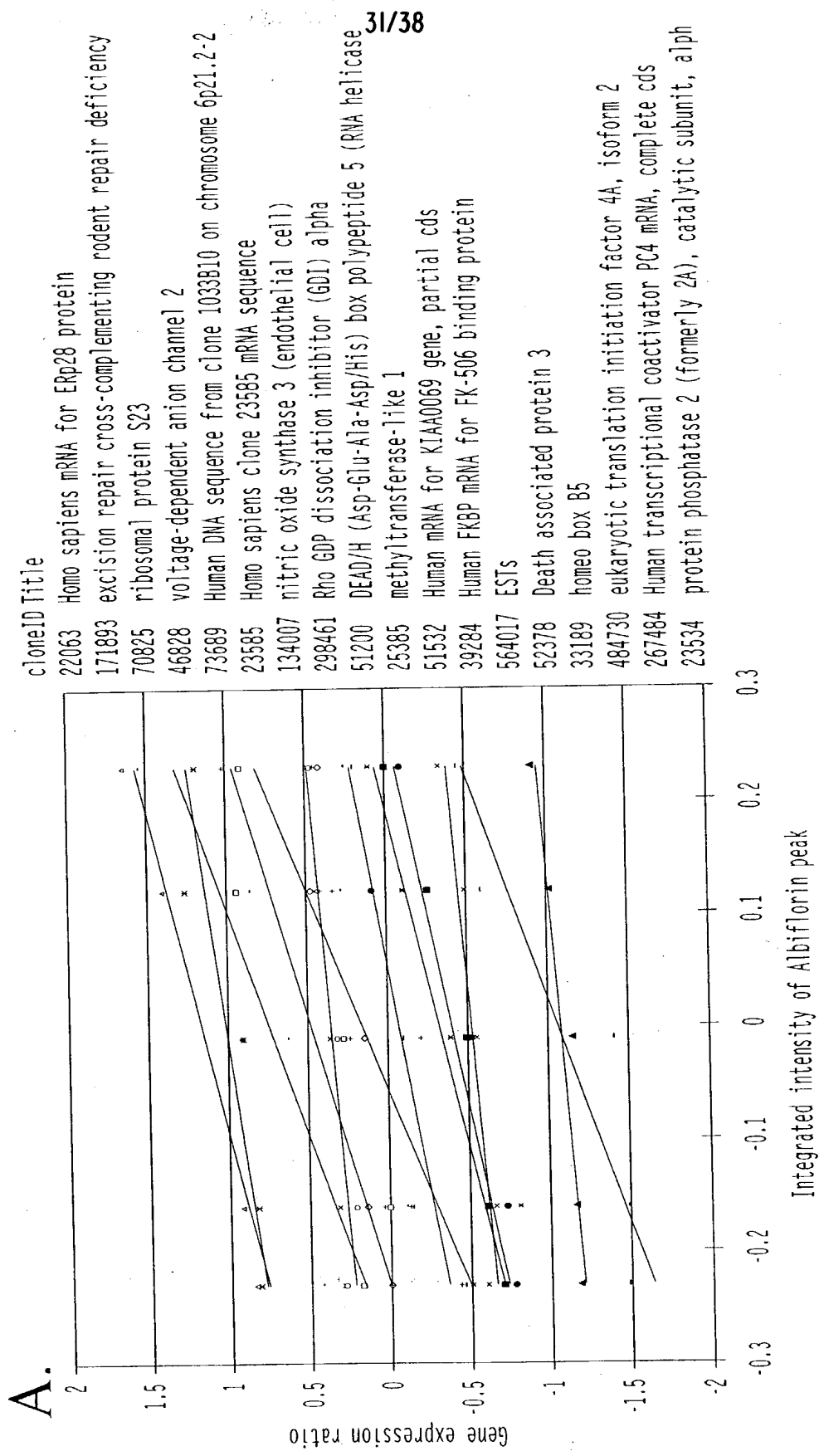
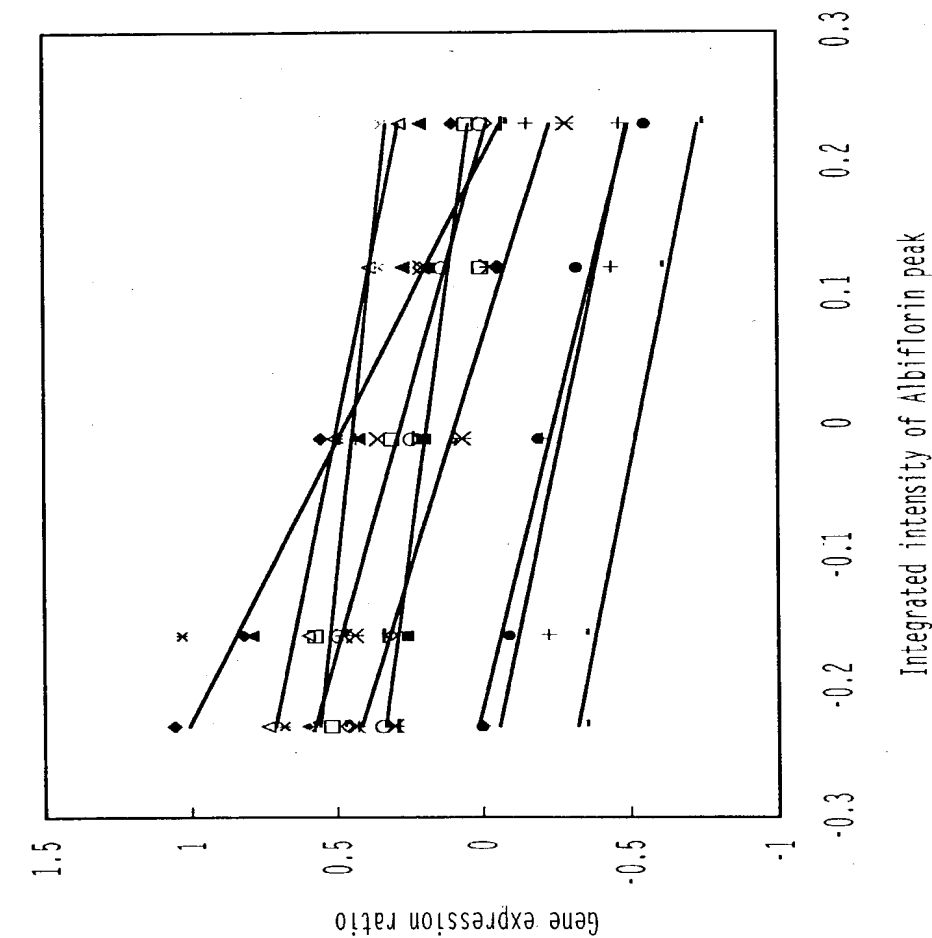


FIG. 24A



**FIG. 24B**

B.



10030453\_0002003  
10/030453



33/38

**FIG. 25**

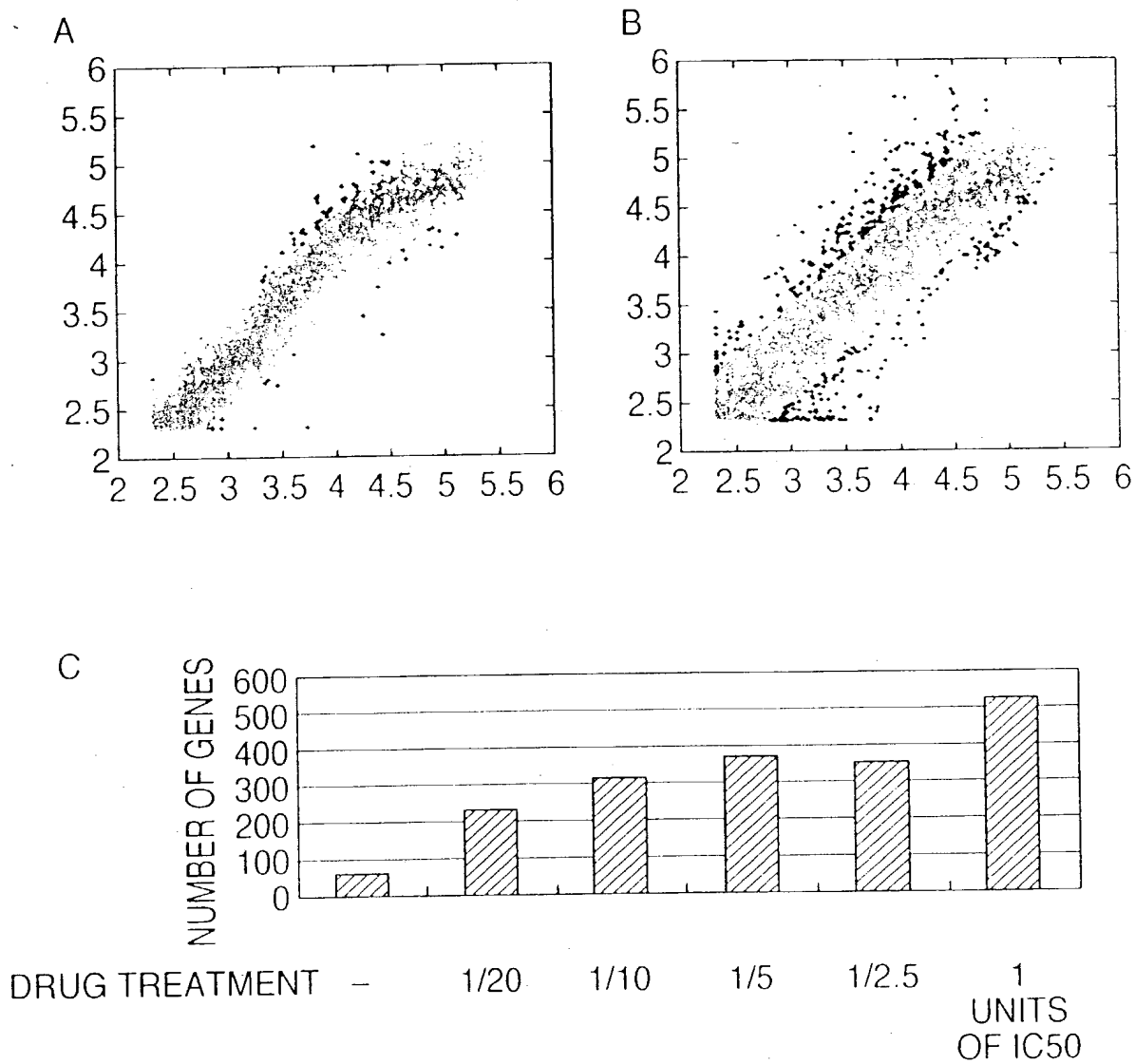
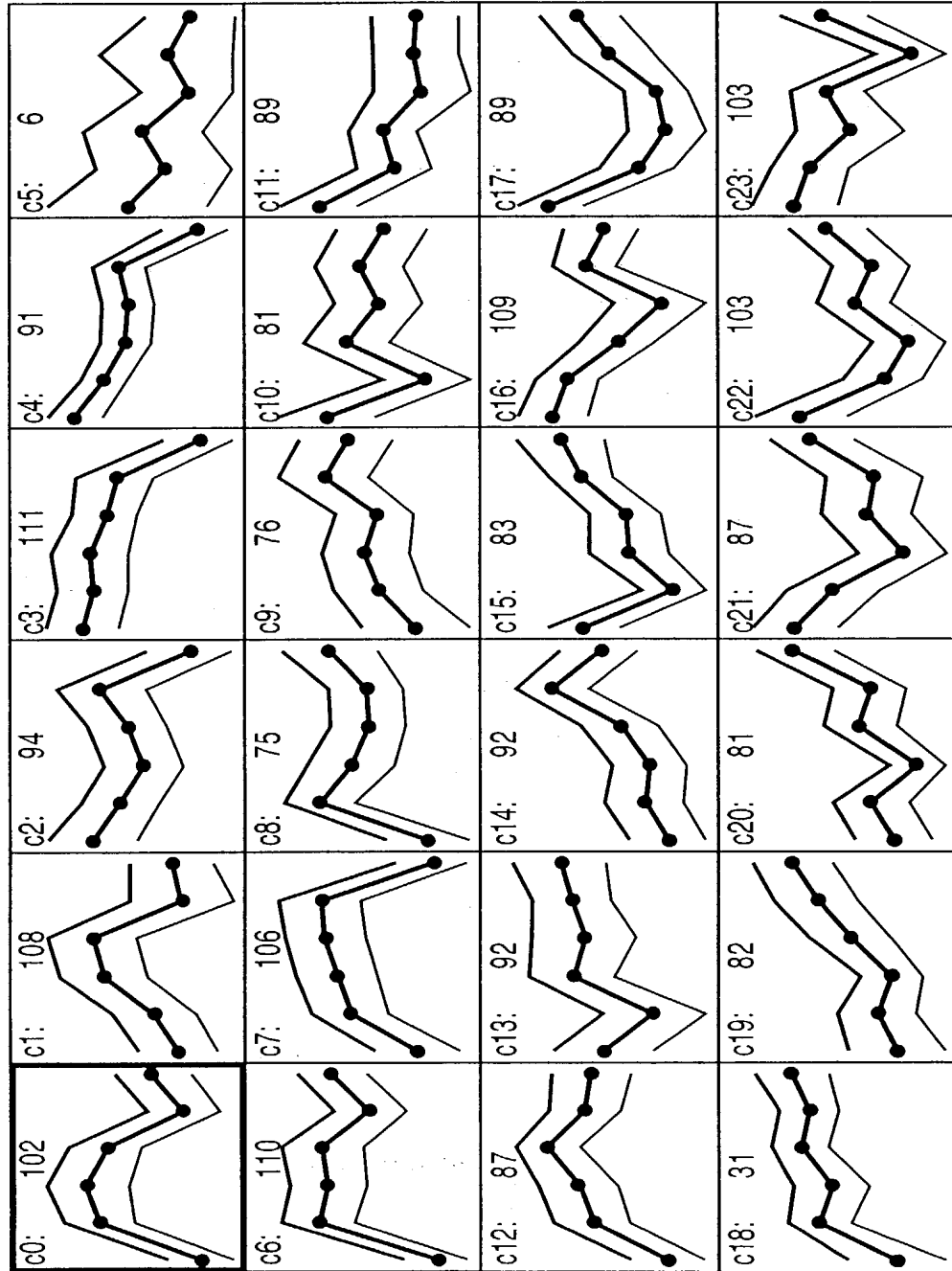


FIG. 26



SOM ANALYSIS OF THE SELECTED 1044 GENES FOR PHY906 #2

FIG. 27A

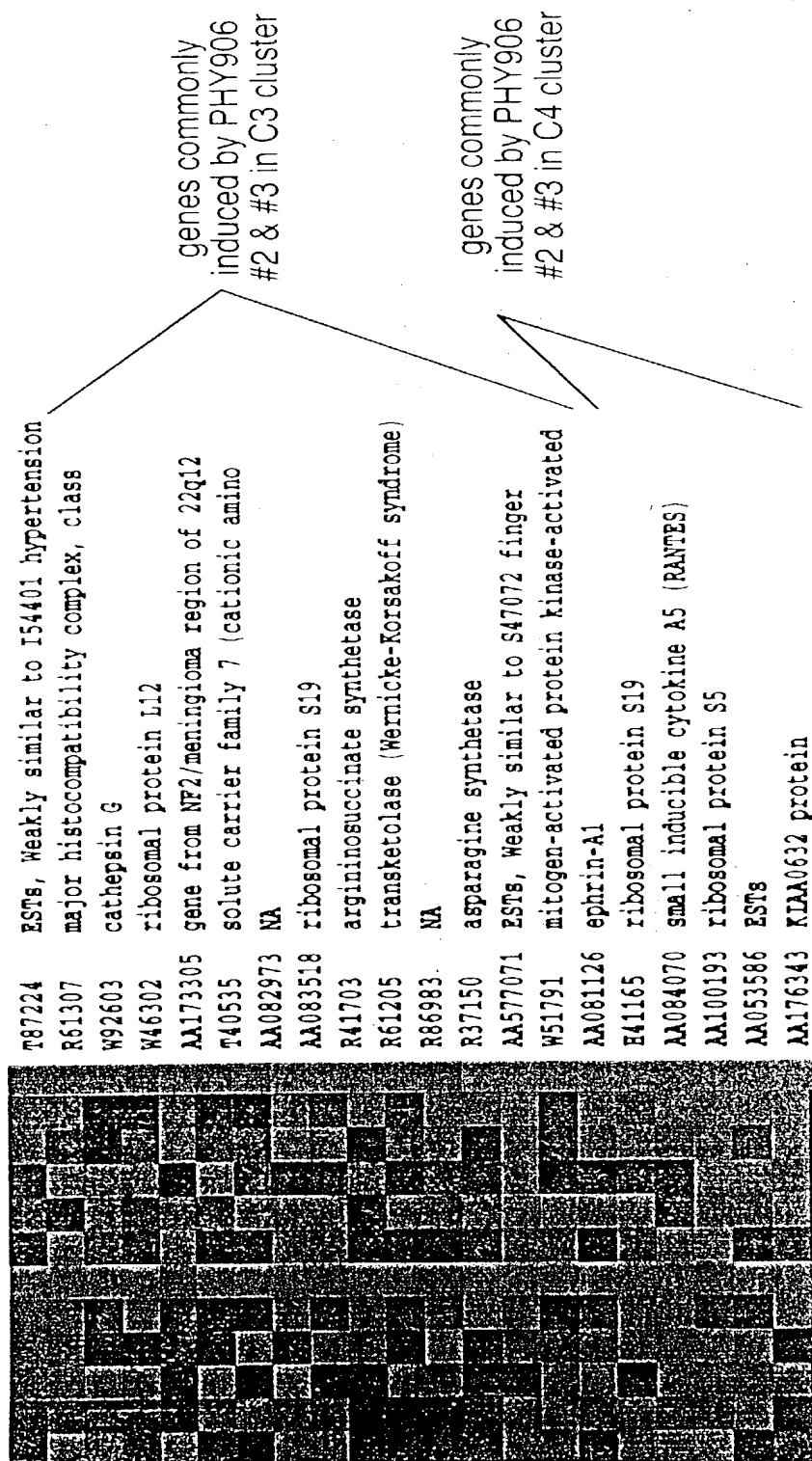


FIG. 27B

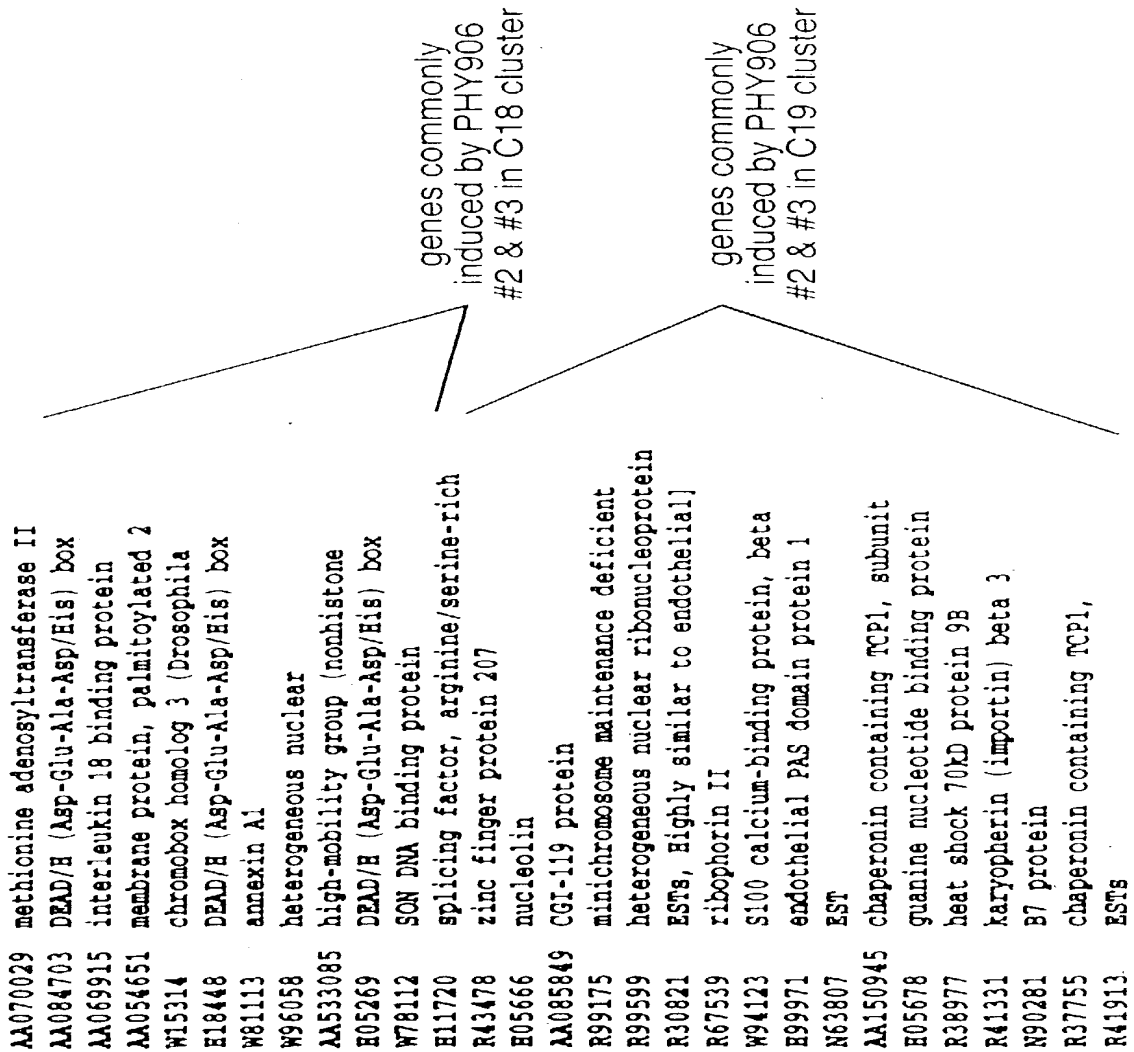
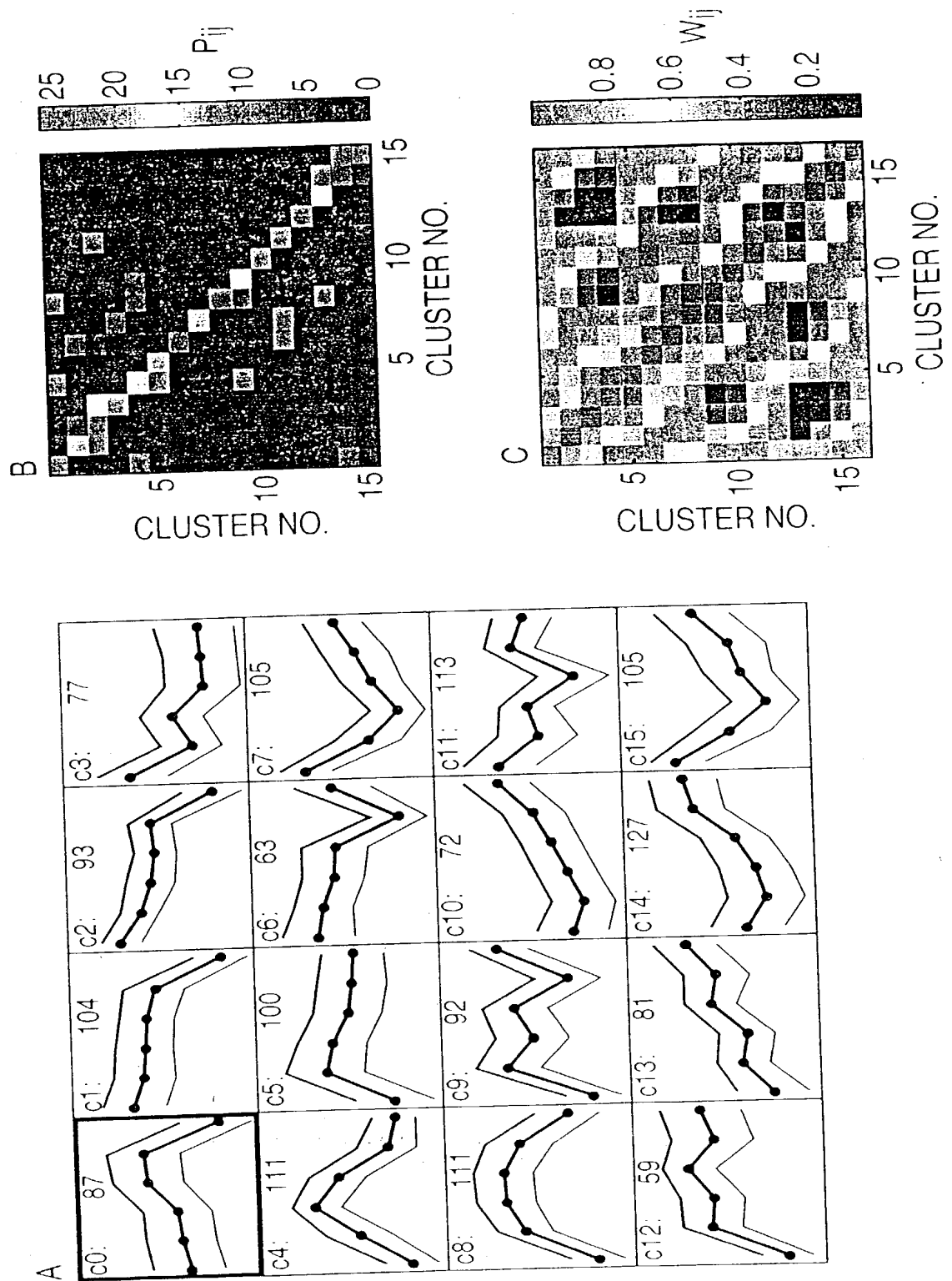


FIG. 28



DISTANCE	#16	#17	#18	#19	#20
#16	1	0.812	0.78	0.713	0.718
#17	0.812	1	0.864	0.764	0.811
#18	0.78	0.864	1	0.775	0.666
#19	0.713	0.764	0.775	1	0.673
#20	0.718	0.811	0.666	0.673	1

Phylogenetic tree showing relationships between five taxa: #19, #20, #16, #18, and #17. The tree is rooted at the top left. Taxon #19 is the outgroup. Taxon #20 is sister to a clade containing #16, #18, and #17. Within this clade, #16 is sister to a pair of sister taxa, #18 and #17.